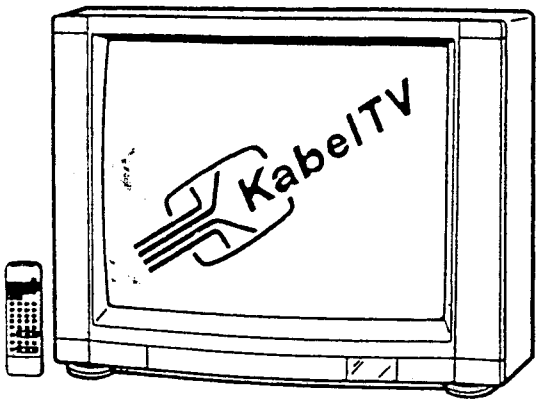
COLOR TELEVISION RECEIVER

PAL/SECAM

ORION

COLOR 711 VT



Bei technischen Änderungen können Ergänzungsblätter angefordert werden.

Specifications are subject to change without notice.

Chassis Code:

A

Bestell-Nr.:

4691

SPECIFICATIONS

PICTURE SIZE		28 inch
SYSTEM		PAL/SECAM
FREQUENCY RANGE:	VHF(L)	2 - 4, 13 - 15, X - S1 ch
	VHF(H)	5 - 12, 16 - 20, S2 - S20 ch
	UHF	21 - 69 ch
MAXIMUM SENSITIVITY:	VHF	20 dB
	UHF	25 dB
INTERMEDIATE FREQUENCY:		
Picture IF Carrier Frequency		38.9 MHz
Color Sub Carrier Frequency		34.47 MHz
Sound IF Carrier Frequency		32.4 MHz
SOUND INTERMEDIATE FREQUENCY		6.5 MHz
MAXIMUM OUTPUT POWER		5.0 W
SPEAKER		4 ohm x 2
POWER SOURCE		AC 220V

IMPORTANT

*USE AN ISOLATION TRANSFORMER WHEN PERFORMING ANY SERVICE ON THIS CHASSIS.

*WHEN REMOVING A PCB OR RELATED COMPONENT, AFTER UNFASTENING OR CHANGING WIRE, BE SURE TO PUT WIRE BACK IN ITS ORIGINAL POSITION.

*INFERIOR SILICON GREASE CAN DAMAGE IC's AND TRANSISTORS. WHEN REPLACING AN IC's OR TRANSISTORS, USE ONLY SPECIFIED SILICON GREASE (YG626OM). REMOVE ALL OLD SILICON BEFORE APPLYING NEW SILICON.

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ELECTRICAL ADJUSTMENTS

1. BEFORE MAKING ELECTRICAL ADJUSTMENT

Read and perform these adjustments when repairing the circuits or replacing electrical parts or PCB assemblies.

1-1: Prepare the following measurement tools for electrical adjustments.

1. Oscilloscope (2 Channel Type)
2. Digital Voltmeter
3. Color Bar Generator
4. Sweepmarker Generator
5. VIF Unit
6. AC Voltmeter
7. Frequency Counter

2. BASIC ADJUSTMENTS

2-1: VIF AND TRAP

NOTE
Connect input and output terminal of the Sweepmarker Generator to circuit as shown in **Fig. 2-1-a**, then adjust it.

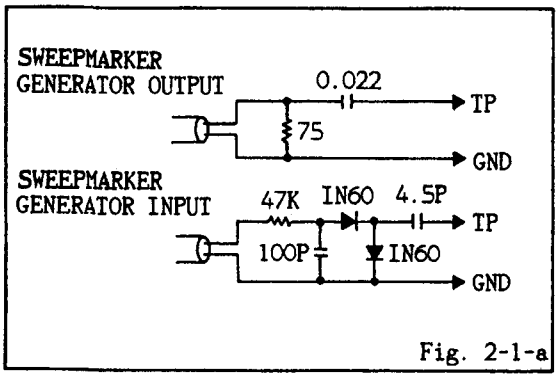
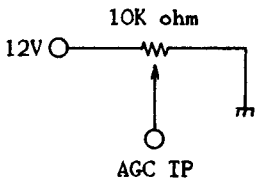


Fig. 2-1-a

1. Connect output terminal of the Sweepmarker Generator to TP202.
2. Connect input terminal of the Sweepmarker Generator to TP203.
3. Connect the 10K ohm variable resistor to IF AGC terminal (TP201), 12V line and ground, then adjust to make the waveform of the oscilloscope readable.



4. Adjust **L201** until the waveform marker (38.9MHz) becomes as shown in **Fig. 2-1-b.**

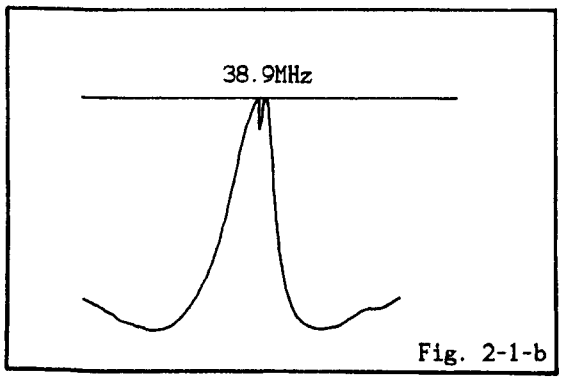


Fig. 2-1-b

5. Disconnect output terminal of the Sweepmarker Generator from TP202, then connect it to TP of the Tuner Pack. (Connect the 2.7K ohm resistor between them.)
6. Disconnect input terminal of the Sweep-Marker Generator from TP203, then connect it to TP208.
7. Adjust **L211** and **L216** until the waveform markers (32.4MHz, 40.4MHz) becomes as show in **Fig. 2-1-c.**

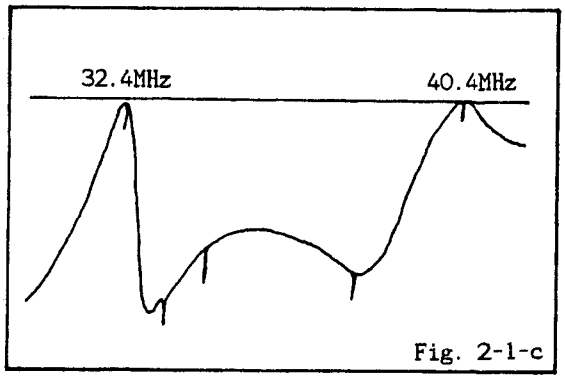


Fig. 2-1-c

8. Disconnect input terminal of the Sweepmarker Generator from TP208, then connect it to TP203.
9. Connect the 1K ohm resistor between TP204 and ground.
10. Confirm the waveform should be as shown in **Fig. 2-1-d.**
(If the waveform is deviated from the standard, adjust the coil of tuner pack.)

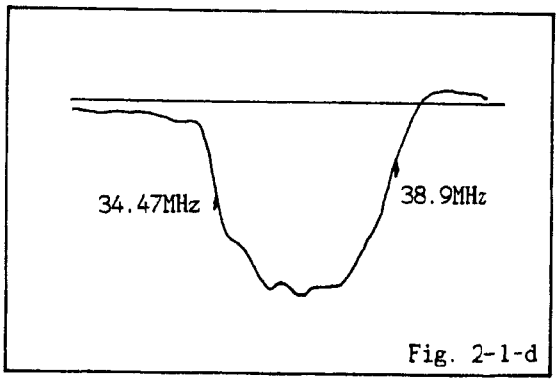


Fig. 2-1-d

11. Disconnect the 10K ohm variable resistor and 1K ohm resistor.

2-2: BELL FILTER

NOTE
Connect input and output terminal of the Sweepmarker Generator to circuit as shown in **Fig. 2-2-a**, then adjust it.

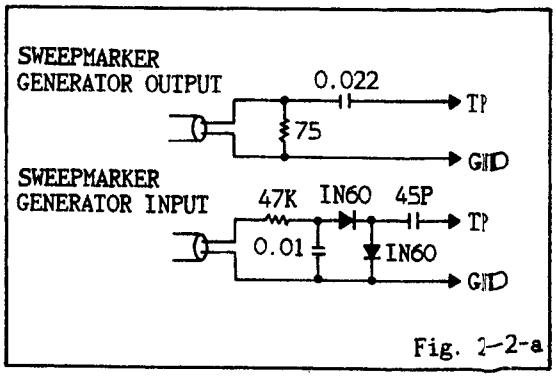


Fig. 2-2-a

ELECTRICAL ADJUSTMENTS

1. Connect output terminal of the Sweepmarker Generator to TP of the Tuner Pack.
2. Connect input terminal of the Sweepmarker Generator to TP966.
3. Adjust **L956** until the waveform becomes as shown in **Fig. 2-2-b.**

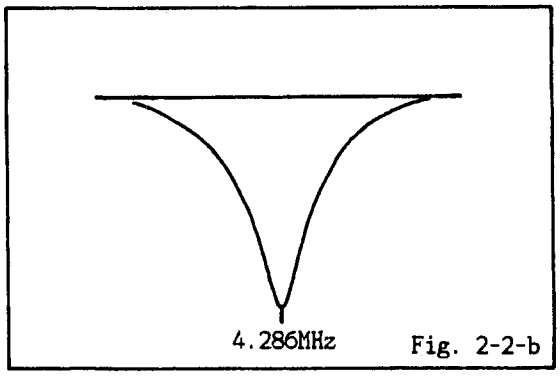


Fig. 2-2-b

2-3: SECAM IDENT

1. Receive the SECAM Color Bar Pattern.
2. Connect the pin 31 of IC951 to earth pattern.
3. Connect the pin 9 of IC951 to earth pattern.
4. Connect the digital voltmeter to TP963.
5. Measure the voltage in TP963.
6. Disconnect the SECAM Color Bar Pattern.
7. Disconnect the pin 9 of IC951 from earth pattern.
8. Input a 4.34MHz (100dB) signal to pin 9 of IC951.
9. Adjust **L957** until the voltage in TP963 is as same as the voltage in step 5.
10. Disconnect the pin 31 of IC951 from earth pattern.

2-4: SECAM PLL

1. Receive the SECAM Color Bar Pattern.
2. Connect the oscilloscope to TP965.
3. Adjust **VR953** until the voltage is DC3V.

2-5: SECAM PHASE

1. Receive the SECAM Color Bar Pattern.
2. Set the PAL/SECAM switch to SECAM position.
3. Connect CH-1 on the oscilloscope to pin 12 of IC951 and CH-2 to pin 14 of IC951.
4. Adjust **VR951** and **VR952** until white part of the pattern is not changed even though you turn Color control from minimum to maximum.

2-6: SECAM LEVEL

1. Receive the SECAM Color Bar Pattern.
2. Connect CH-1 on the oscilloscope to pin 20 of IC951 and CH-2 to pin 23 of IC951.
3. Adjust **VR954** until the waveform size of CH-1 is as same as the waveform size of CH-2.

2-7: RF AGC

NOTE
Adjust after performing adjustments in section 2-1.

2-7-A: In case of weak electric field.

1. Receive the noisy channel.
2. Adjust **VR201** until noise is at minimum.
3. Change the channel, confirm other channels are normal.

2-7-B: In case of strong electric field. (Diagonal streaks indicate radio frequency interference.)

1. Adjust **VR201** until diagonal streaks are at minimum.
2. If there is still a problem after adjusting VR201, install an attenuator to the antenna terminals, then repeat step 1.
3. Confirm noise will appear.
4. Change the channel, confirm other channels are normal.

2-8: CUT OFF

1. Receive the Color Bar Pattern.
2. Adjust remote control until the bright and contrast controls are at minimum position.
3. Connect the oscilloscope to TP24.
4. Adjust the Screen control until voltage is DC145V. **(Refer to Fig. 2-3)**

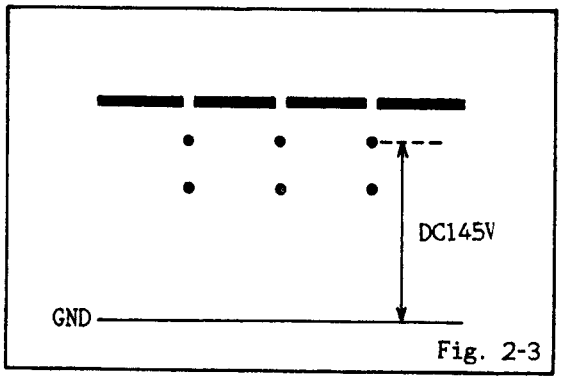


Fig. 2-3

2-9: FOCUS

1. Receive the broadcasting signal.
2. Adjust the Focus control until is distinct.

2-10: VERTICAL AND HORIZONTAL SIZE

1. Receive the Crosshatch Pattern from the Color Bar Generator.
2. Adjust the Bright and Contrast controls until the crosshatch pattern is distinct.
3. Adjust **VR401 (V)** and **VR471 (H)** until the center of crosshatch is square.
4. Receive broadcasting signal, then confirm picture is normal

2-11: HORIZONTAL POSITION

1. Receive the Color Bar Pattern.
2. Adjust **VR402** until the color width of both of screen edges are equal.
3. Receive broadcasting signal, then confirm picture is normal.

2-12: HUE DELAY

1. Receive the DEM Pattern.
2. Connect CH-1 on the oscilloscope to pin 8 of CP951 and CH-2 to pin 10 of CP951.
3. Adjust **L958** and **VR955** until the waveform is straight line. **(Refer to Fig. 2-4)**

ELECTRICAL ADJUSTMENTS

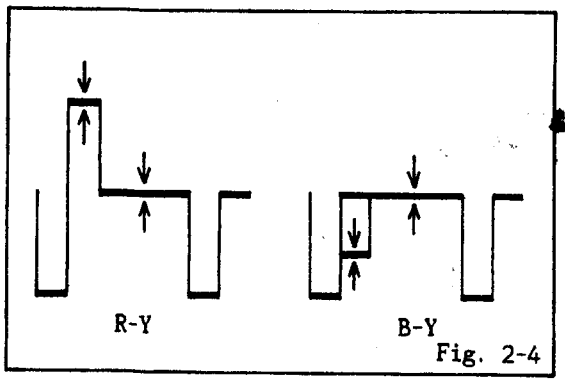


Fig. 2-4

2-13: SIDE PCC

1. Receive the Crosshatch Pattern from the Color Bar Generator.
2. Adjust **VR472** until the right and left 3rd vertical line is straight.

2-14: SUB BRIGHT

1. Receive the Monochrome Pattern.
2. Press the NORMAL button on the remote control unit.
3. Adjust **VR612** until 0% of gray scale will begin to lighten.
4. Receive the T'TEXT Pattern.
5. Adjust **VR901** until the RGB black level is as same as the RF black level.

2-15: SUB COLOR

2-15-A: For PAL

1. Receive the Color Bar Pattern.
2. Press the NORMAL button on the remote control unit.
3. Connect the oscilloscope to TP22.
4. Adjust **VR602** until red color level is 75%.

2-15-B: For SECAM

1. Receive the SECAM Color Bar Pattern.
2. Press the NORMAL button on the remote control unit.
3. Connect the oscilloscope to TP22.
4. Adjust **VR614** until red color level is 75%.

2-16: T'TEXT FREQUENCY

1. Receive the noise signal.
2. Connect the frequency counter to TP003.
3. Adjust **TC851** until the counter is 6.0000MHz.

2-17: SOUND IF DETECTION

2-17-A: For 5.5MHz

1. Receive the Mult-channel TV broadcasting signal.
2. Connect the oscilloscope to TP033.
3. Adjust **L034** until the waveform is maximum.
4. Connect the distortion meter to pin 1 of J705.
5. Adjust **L034** until the distortion rate is minimum.

2-17-B: For 5.74MHz

1. Receive the Mult-channel TV broadcasting signal.
2. Connect the oscilloscope to TP034.
3. Adjust **L032** until the waveform is maximum.
4. Connect the distortion meter to pin 3 of J705.
5. Adjust **L032** until the distortion rate is minimum.

2-18: PILOT DETECTION

1. Receive the Mult-channel TV broadcasting signal.
2. Connect the oscilloscope to TP037.
3. Adjust **L033** and **L035** until the waveform is maximum.

2-19: PILOT TONE

1. Receive the stereo broadcasting signal.
2. Connect the oscilloscope to TP031.
3. Adjust **VR033** until the waveform is maximum. (From 100mVp-p to 280mVp-p.)
4. Adjust **VR034** until the waveform is maximum. (From 100mVp-p to 280mVp-p.)

2-20: PLL CENTER FREQUENCY

1. Receive the Monochrome Pattern.
2. Input a sine wave of 196Hz (100mVp-p) to TP031. (Connect 50V1μF capacitor between them.)
3. Connect the digital voltmeter to pin 10 of IC031.
4. Adjust **VR031** until the voltage is DC6.5V.

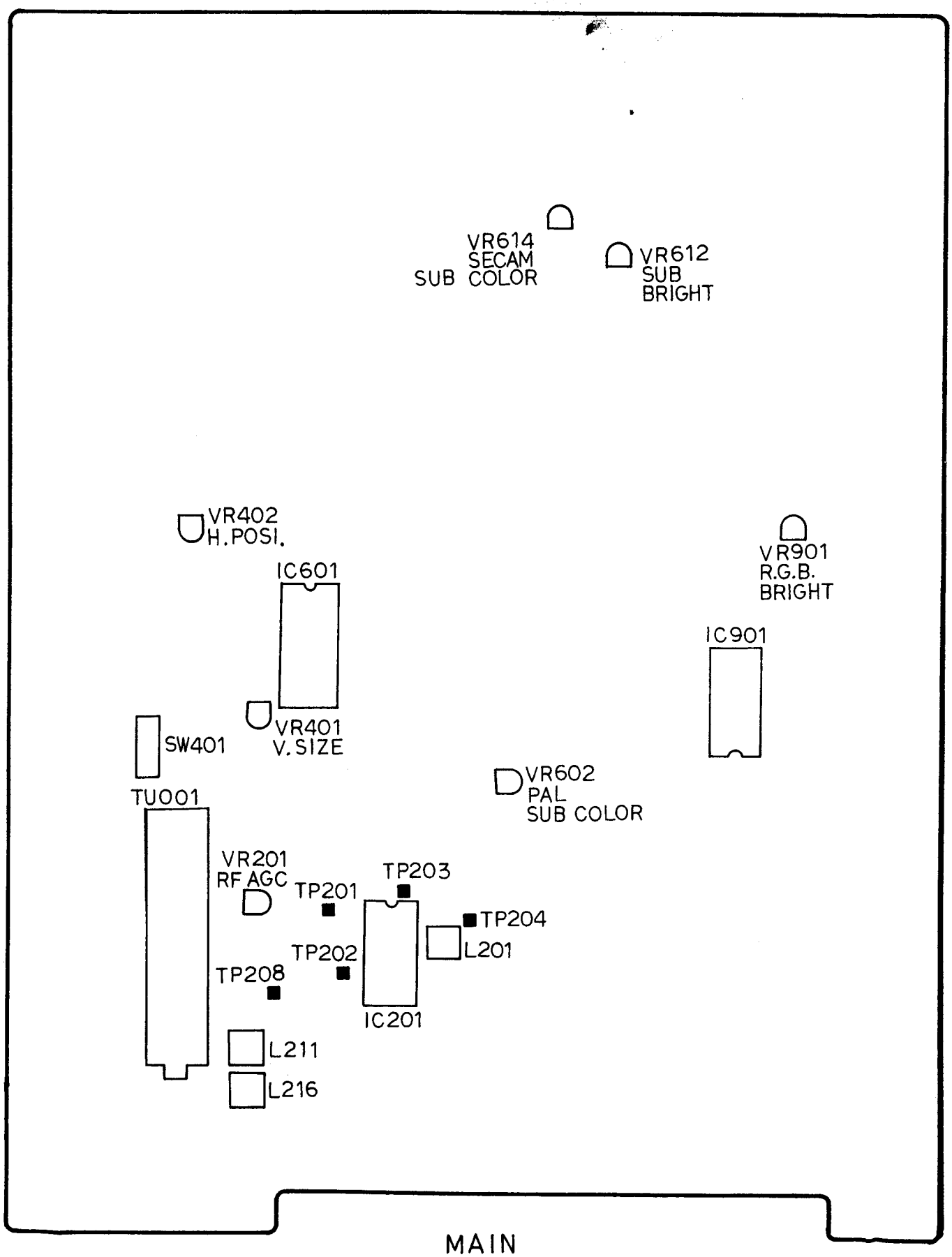
2-21: STEREO SEPARATION

1. Receive the stereo broadcasting signal.
2. Connect the AC voltmeter to L-ch of the audio out.
3. Adjust **VR032** until output of L-ch is minimum.

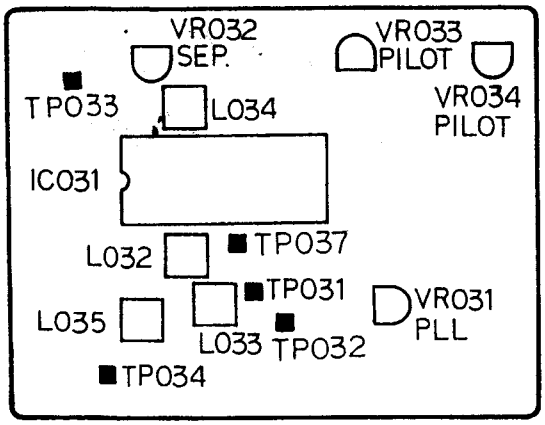
2-22: VERTICAL POSITION

1. Receive the color bar pattern.
2. Adjust **SW401** until horizontal line of the color bar comes to approximate center of the CRT.

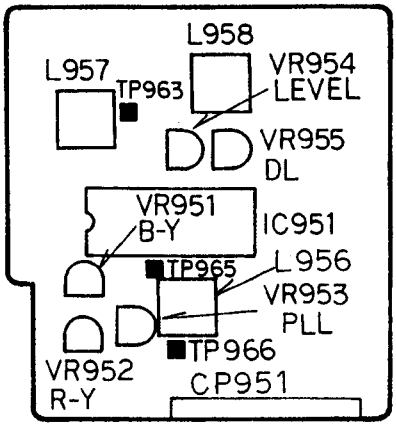
MAJOR COMPONENTS LOCATION GUIDE



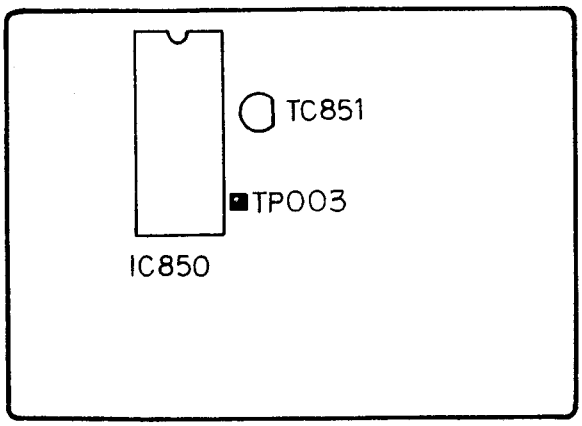
MAJOR COMPONENTS LOCATION GUIDE



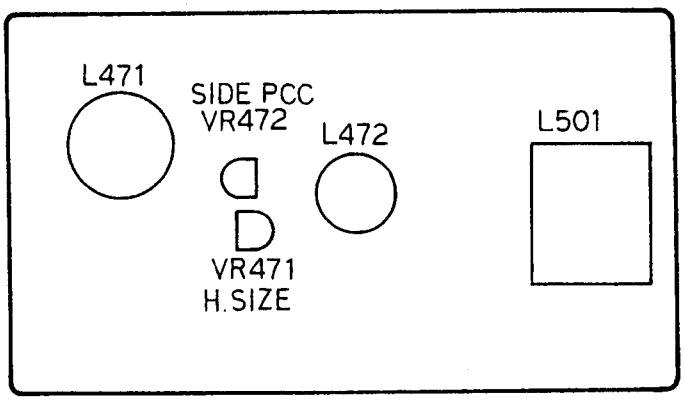
ST/ SAP



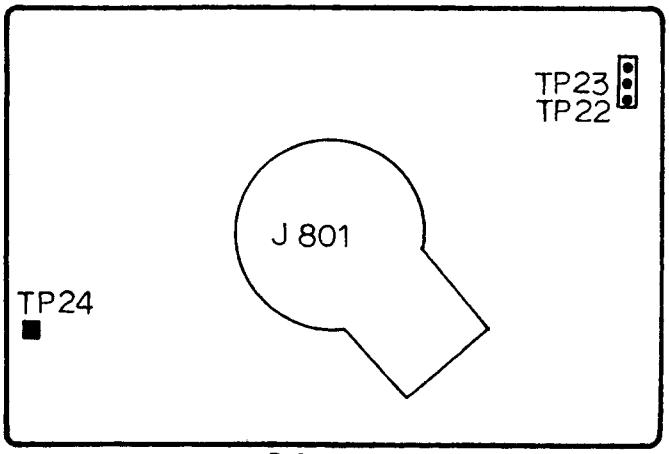
SECAM



T'TEXT

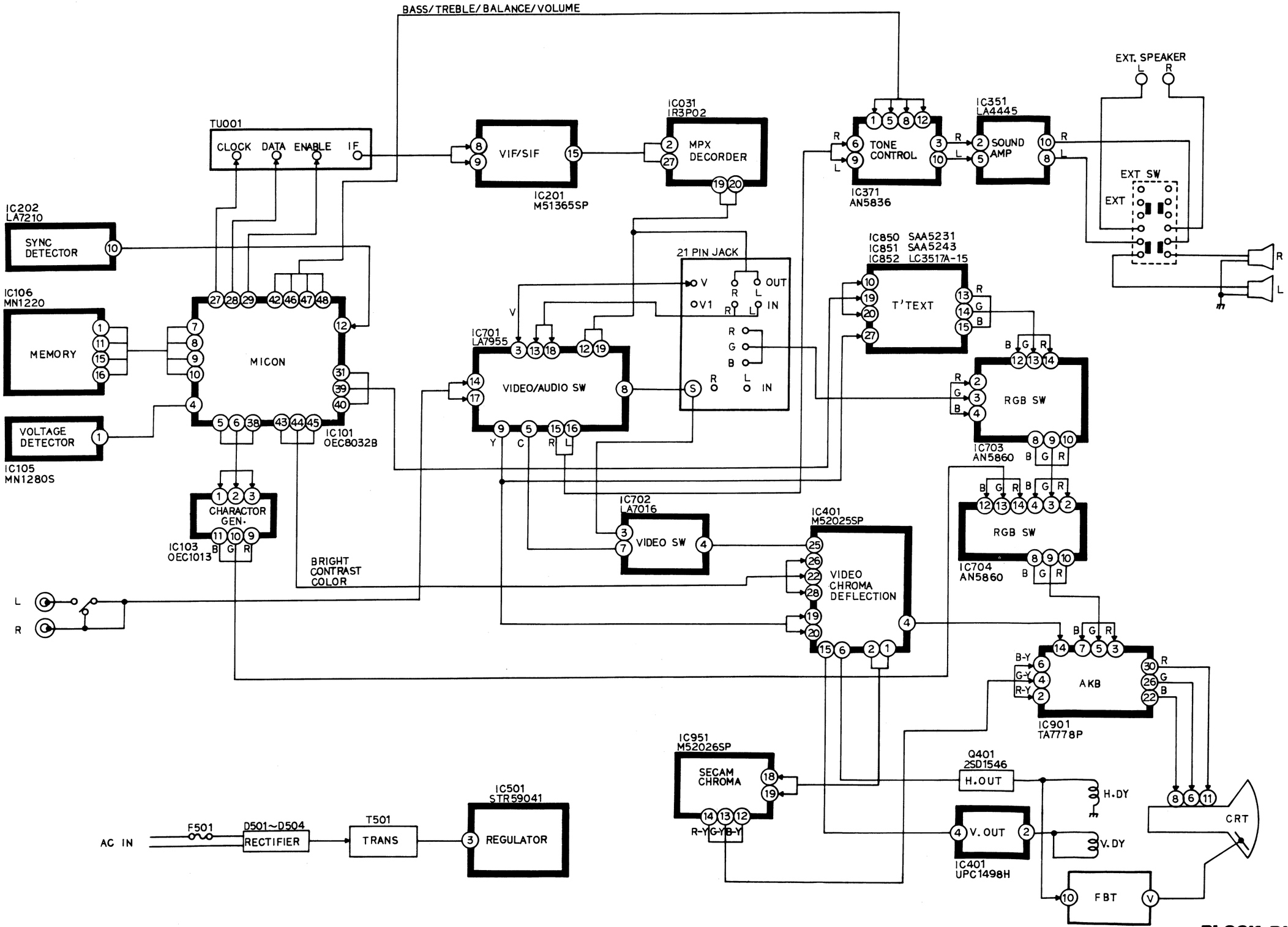


PIN CUSHION

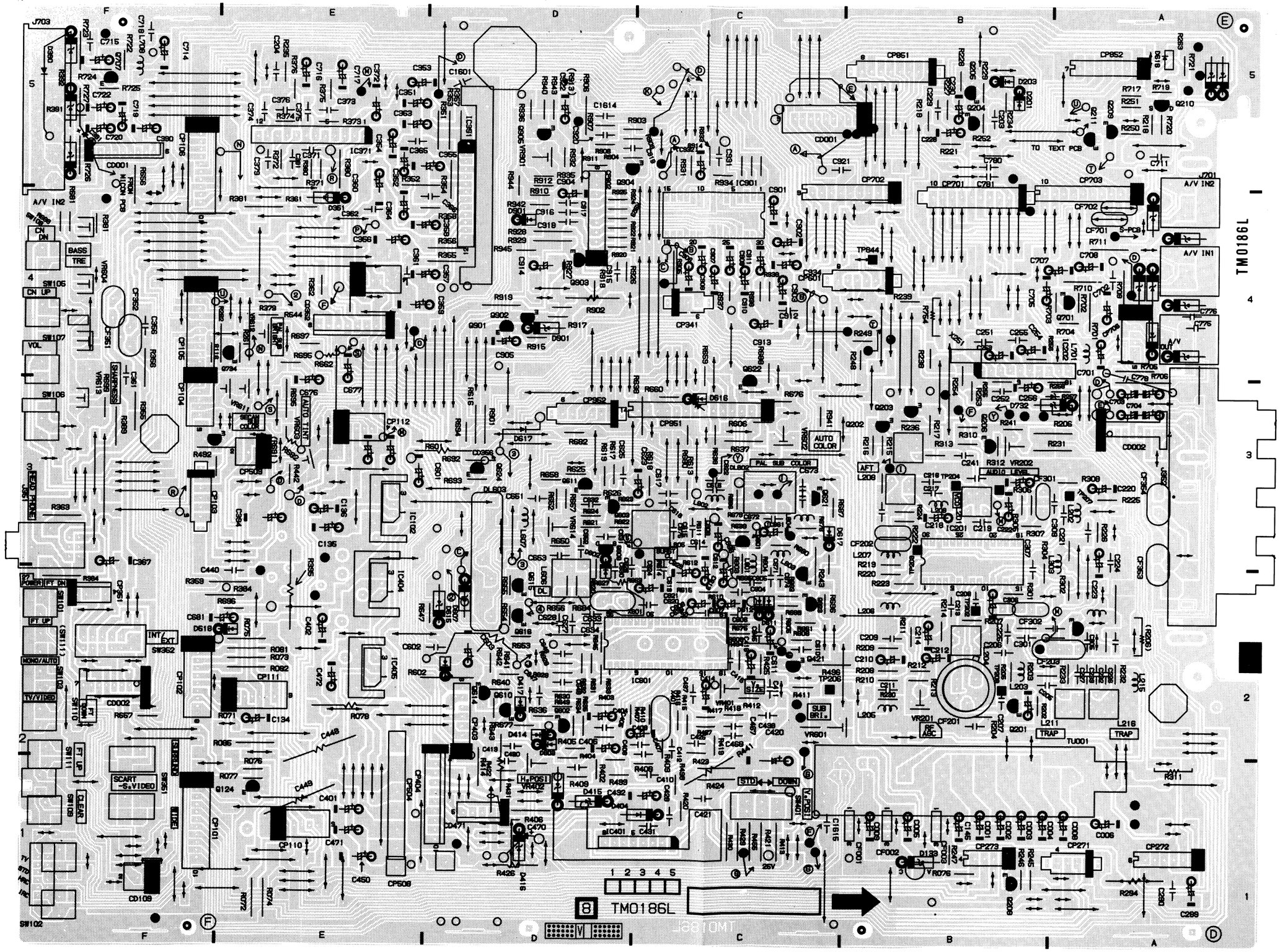


CRT

BLOCK DIAGRAM

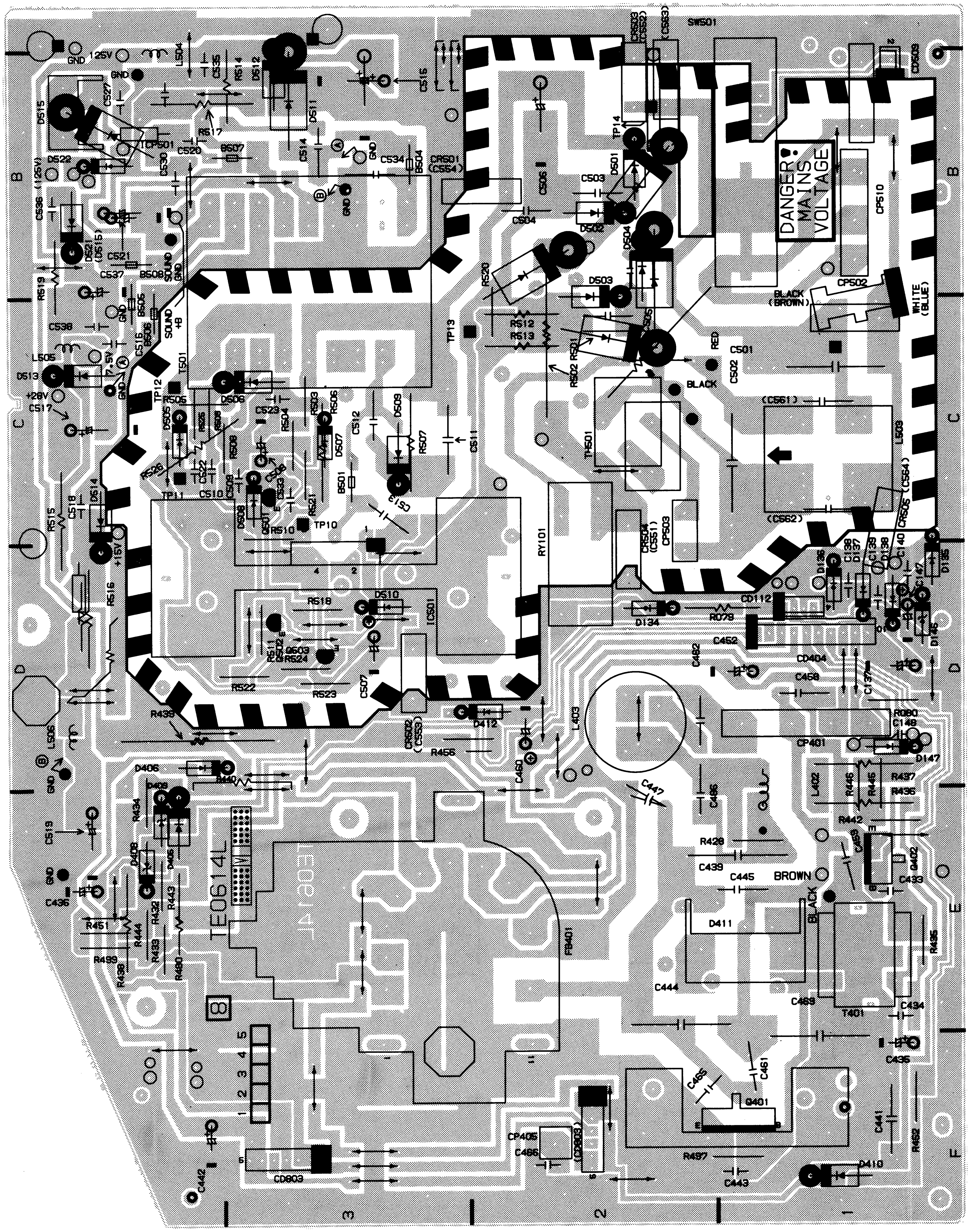


PRINTED CIRCUIT BOARD
MAIN

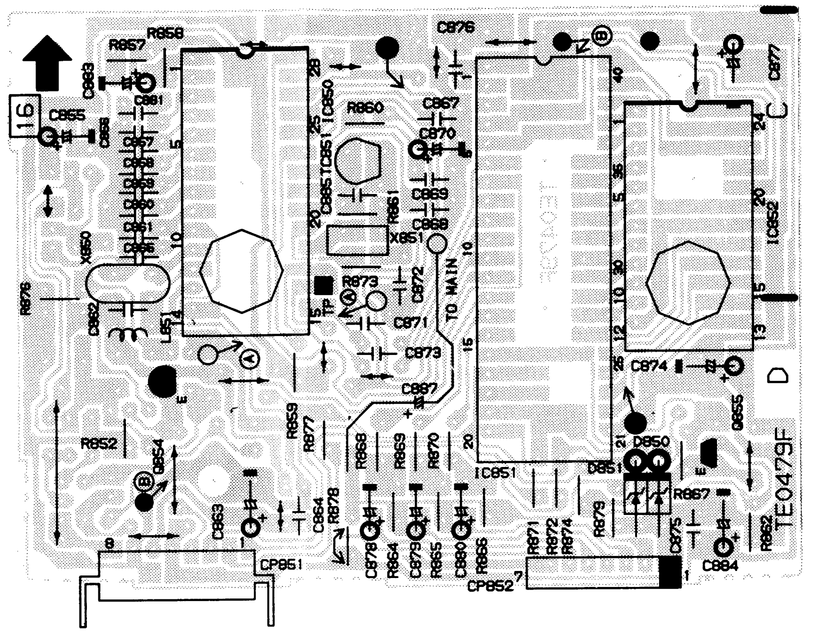


PRINTED CIRCUIT BOARD

POWER

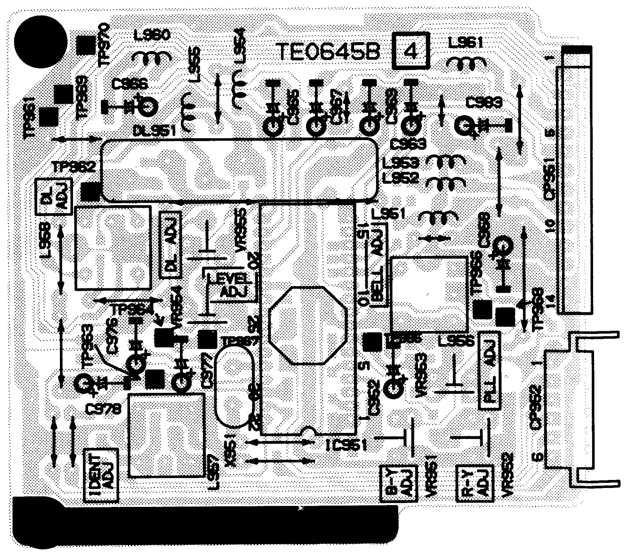


T'TEXT

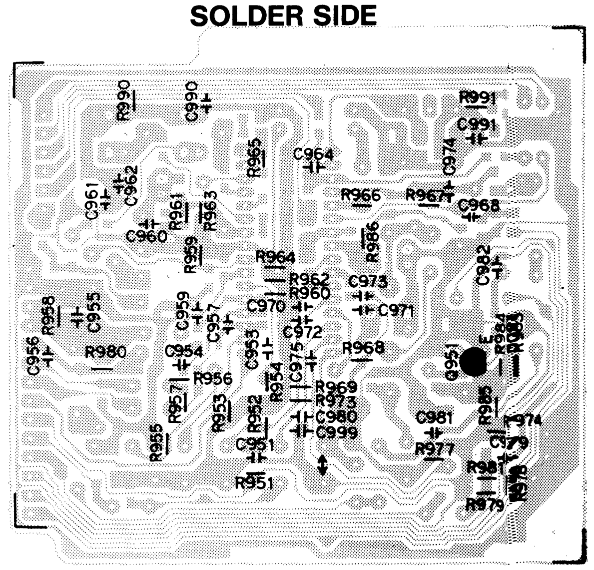


SECAM

COMPONENT SIDE



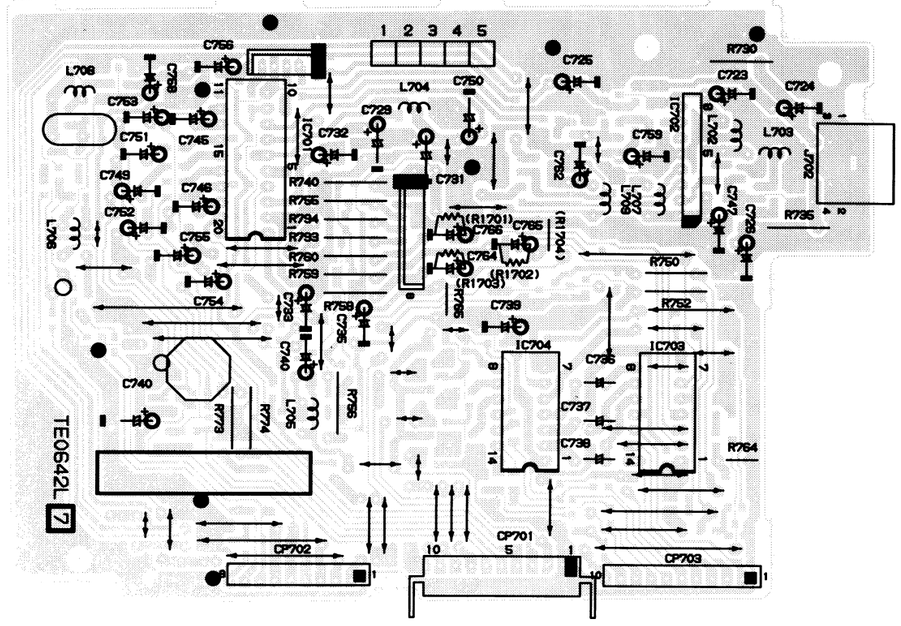
SOLDER SIDE



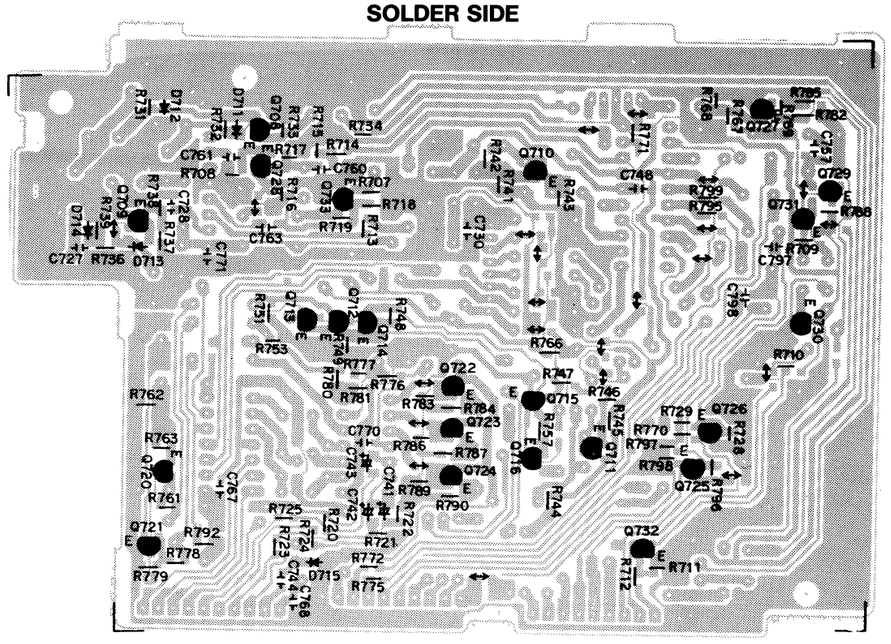
PRINTED CIRCUIT BOARDS

S-VHS

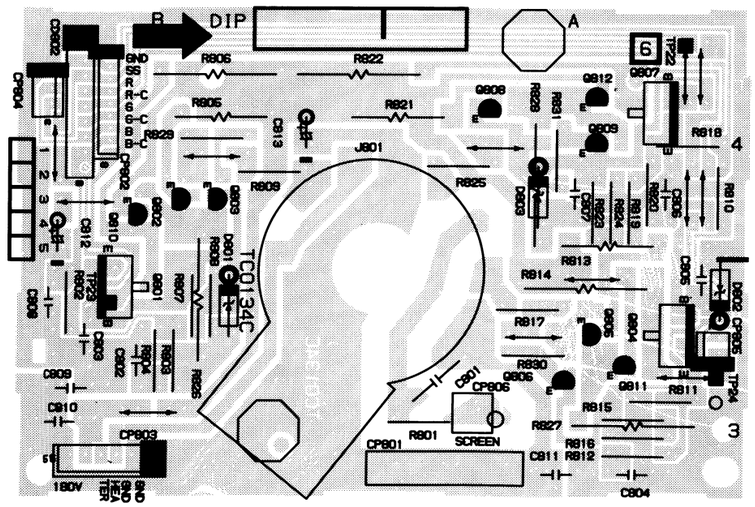
COMPONENT SIDE



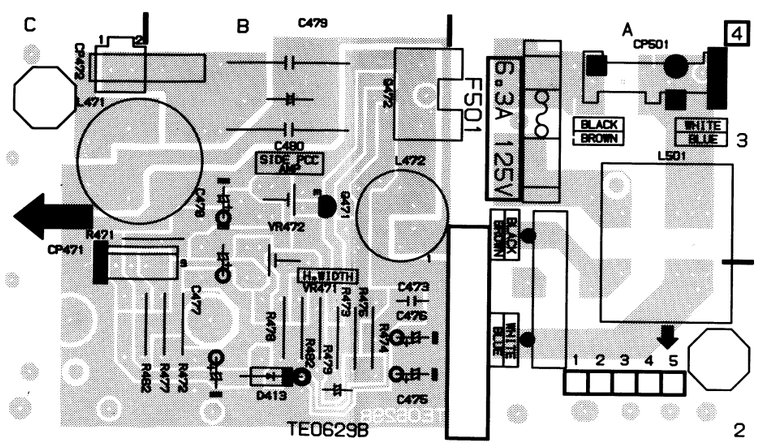
SOLDER SIDE



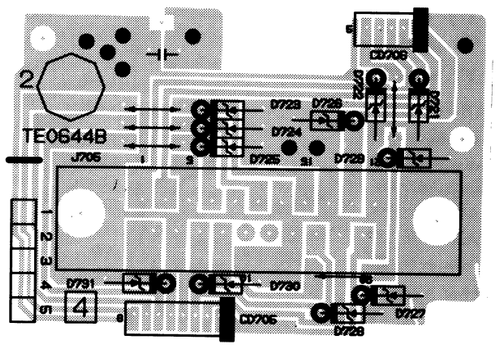
CRT



PIN CUSHION

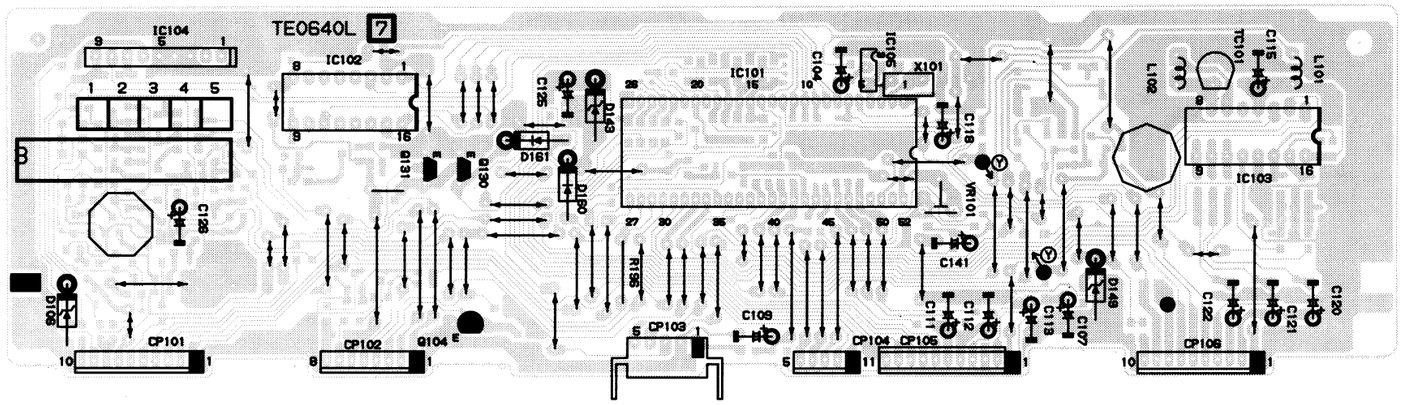


21 PIN

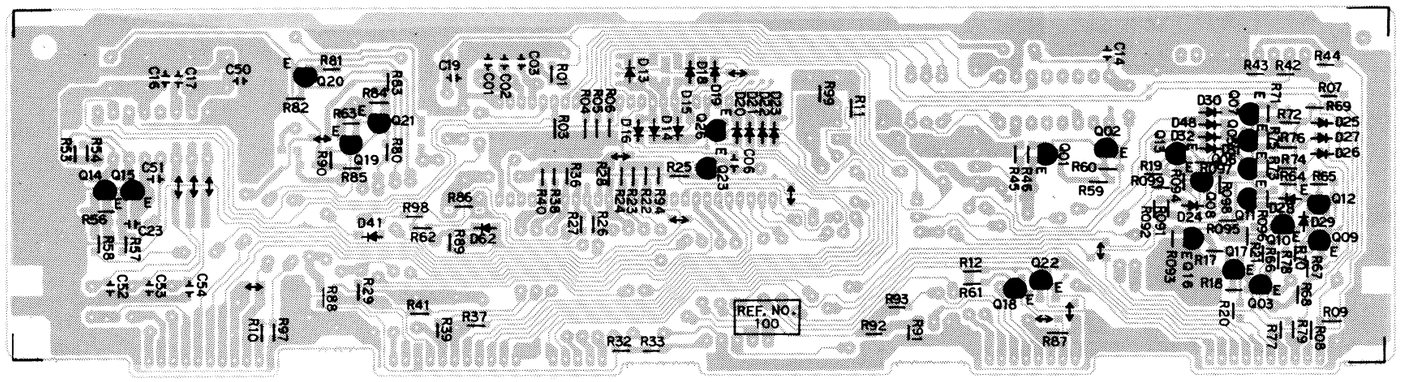


MICON

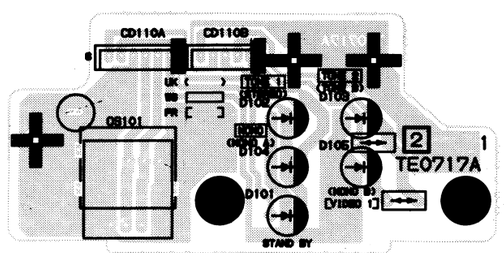
COMPONENT SIDE



SOLDER SIDE

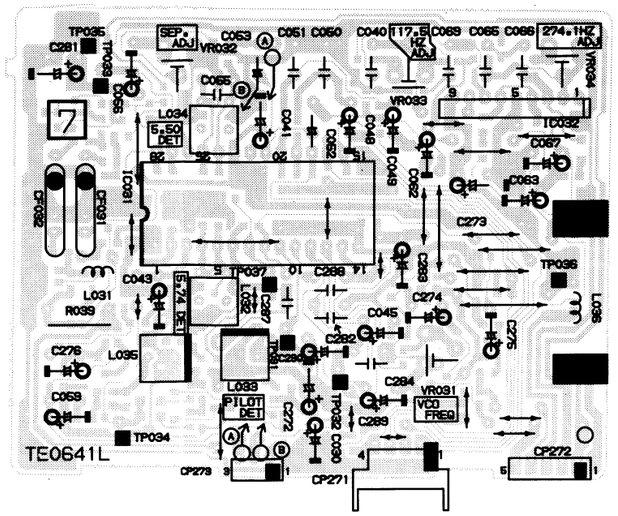


CONTROL

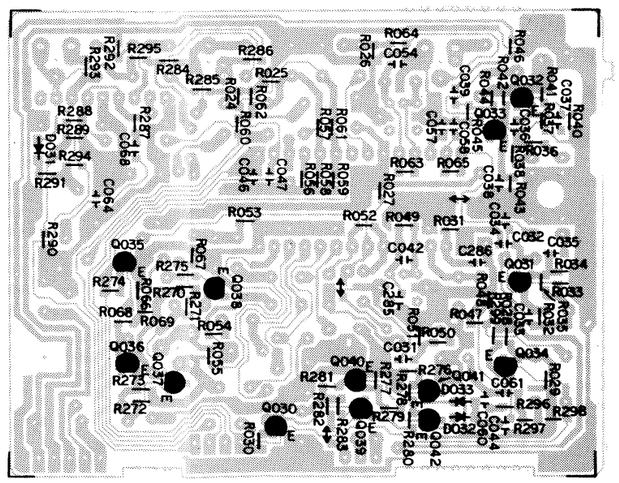


STEREO / SAP

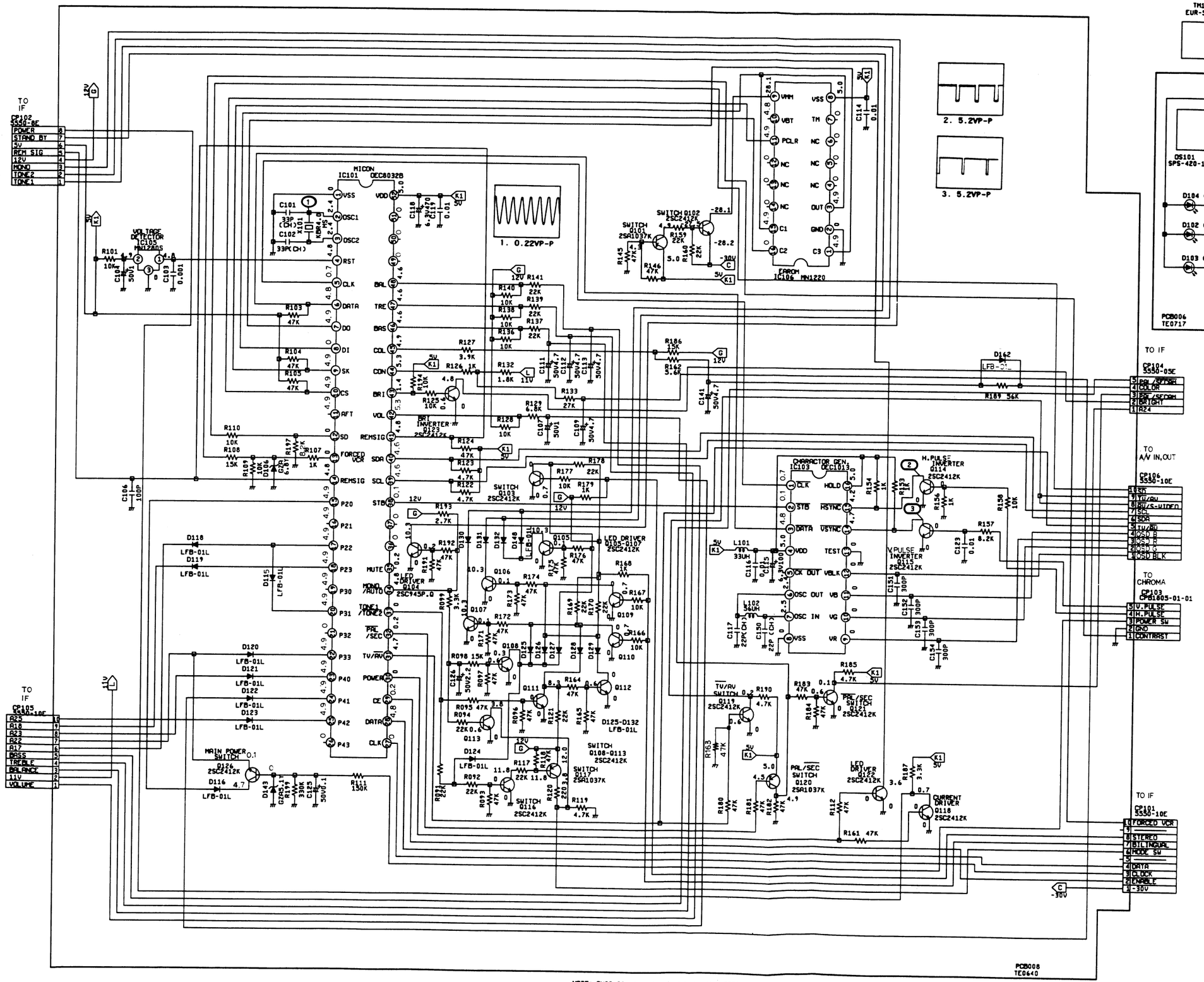
COMPONENT SIDE



SOLDER SIDE



MICON SCHEMATIC DIAGRAM

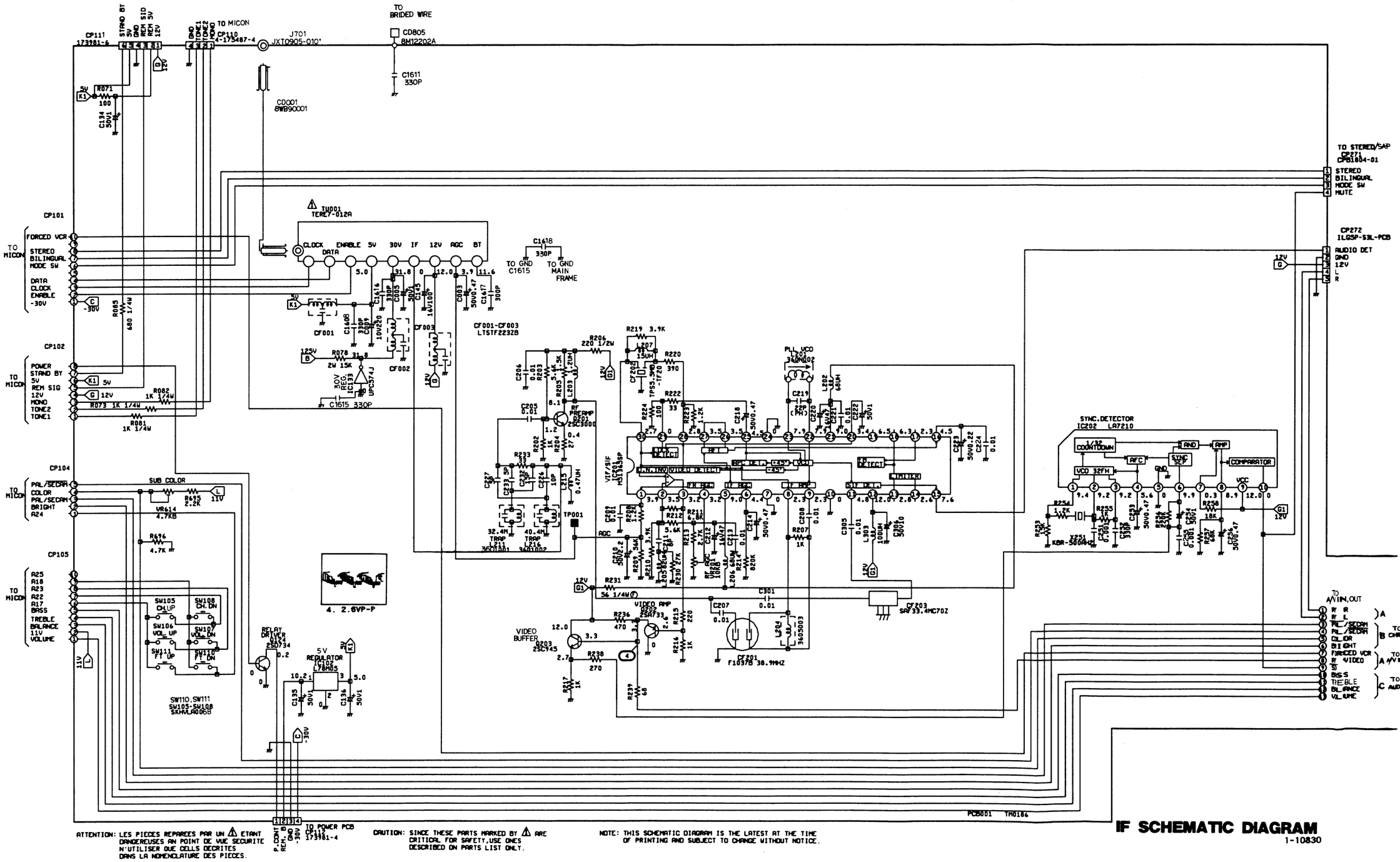


NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

MICON SCHEMATIC DIAGRAM

1-10829

IF SCHEMATIC DIAGRAM



ATTENTION: LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES.

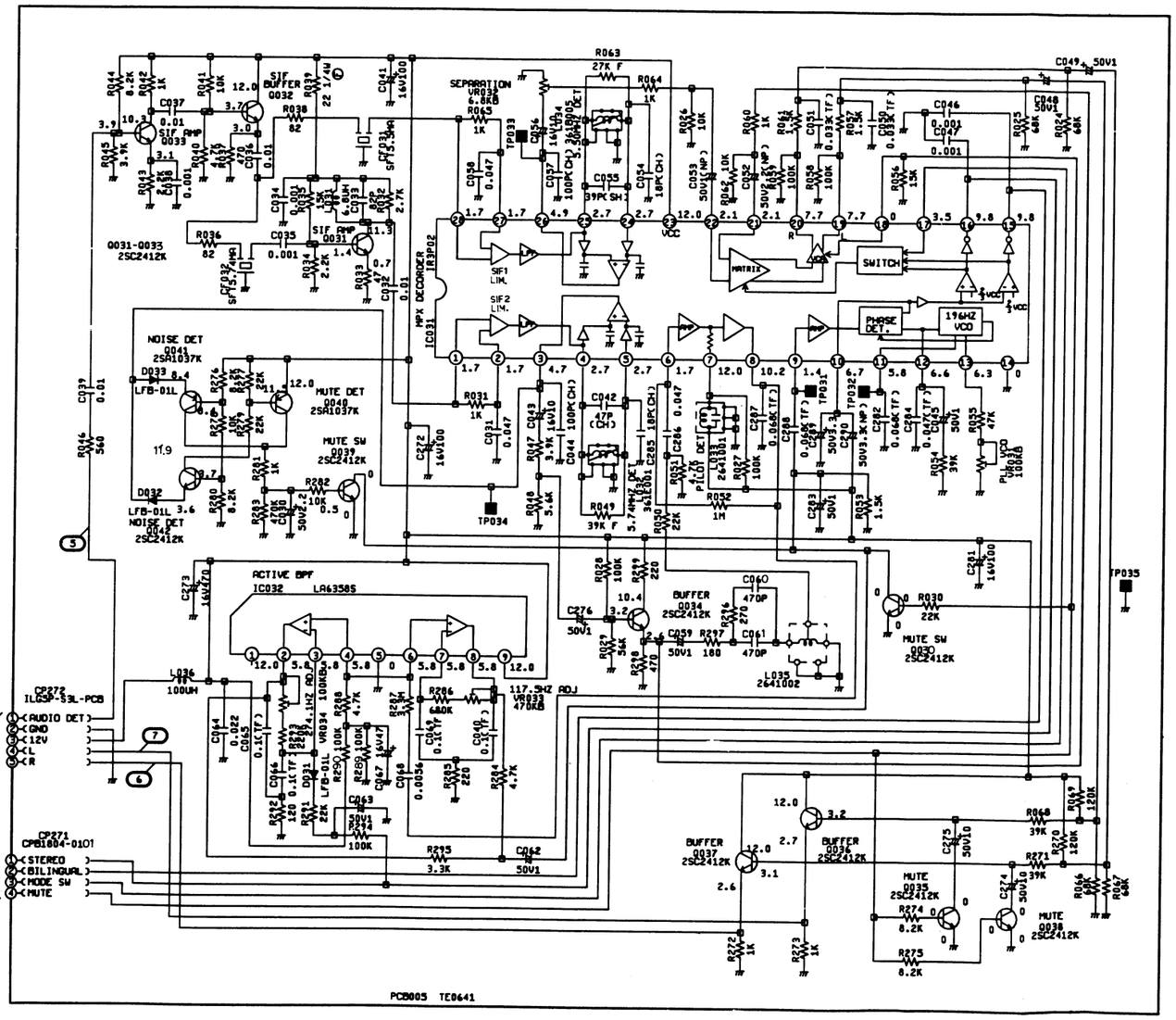
CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED ON PARTS LIST ONLY.

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

IF SCHEMATIC DIAGRAM

1-10830

STEREO/SAP SCHEMATIC DIAGRAM



5. 0.3VP-P

6. 1.2VP-P

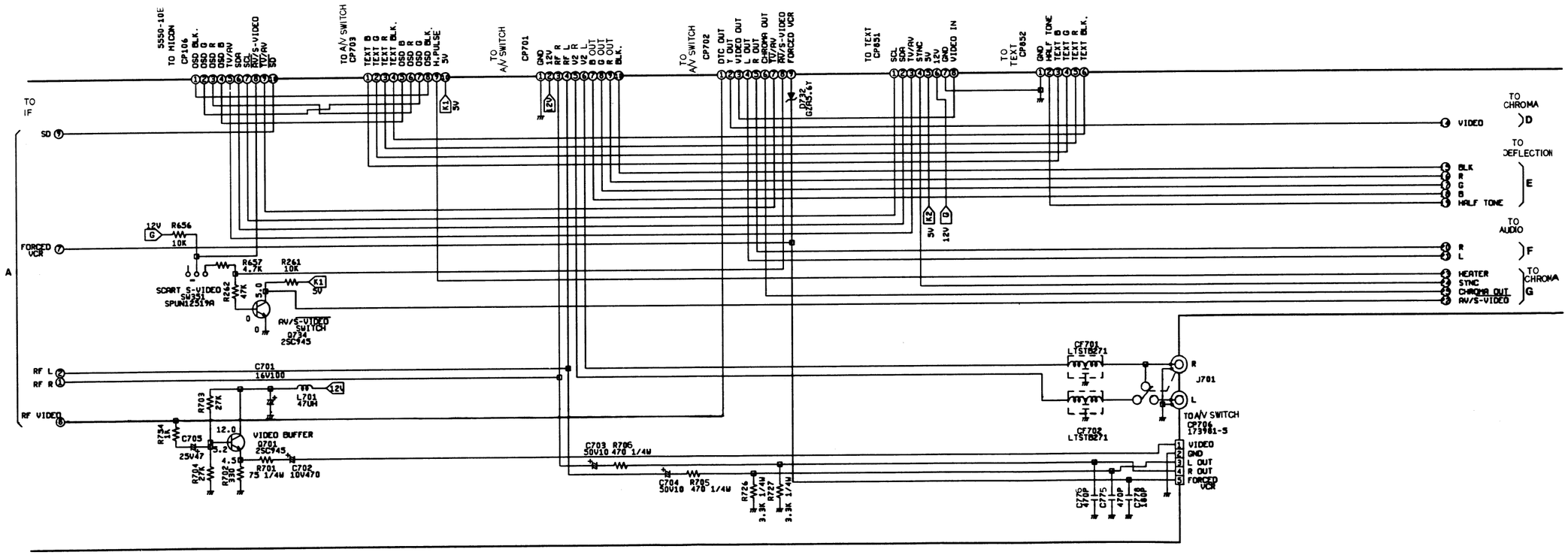
7. 1.2VP-P

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

STEREO/SAP SCHEMATIC DIAGRAM

1-10831

A/V/IN,OUT SCHEMATIC DIAGRAM

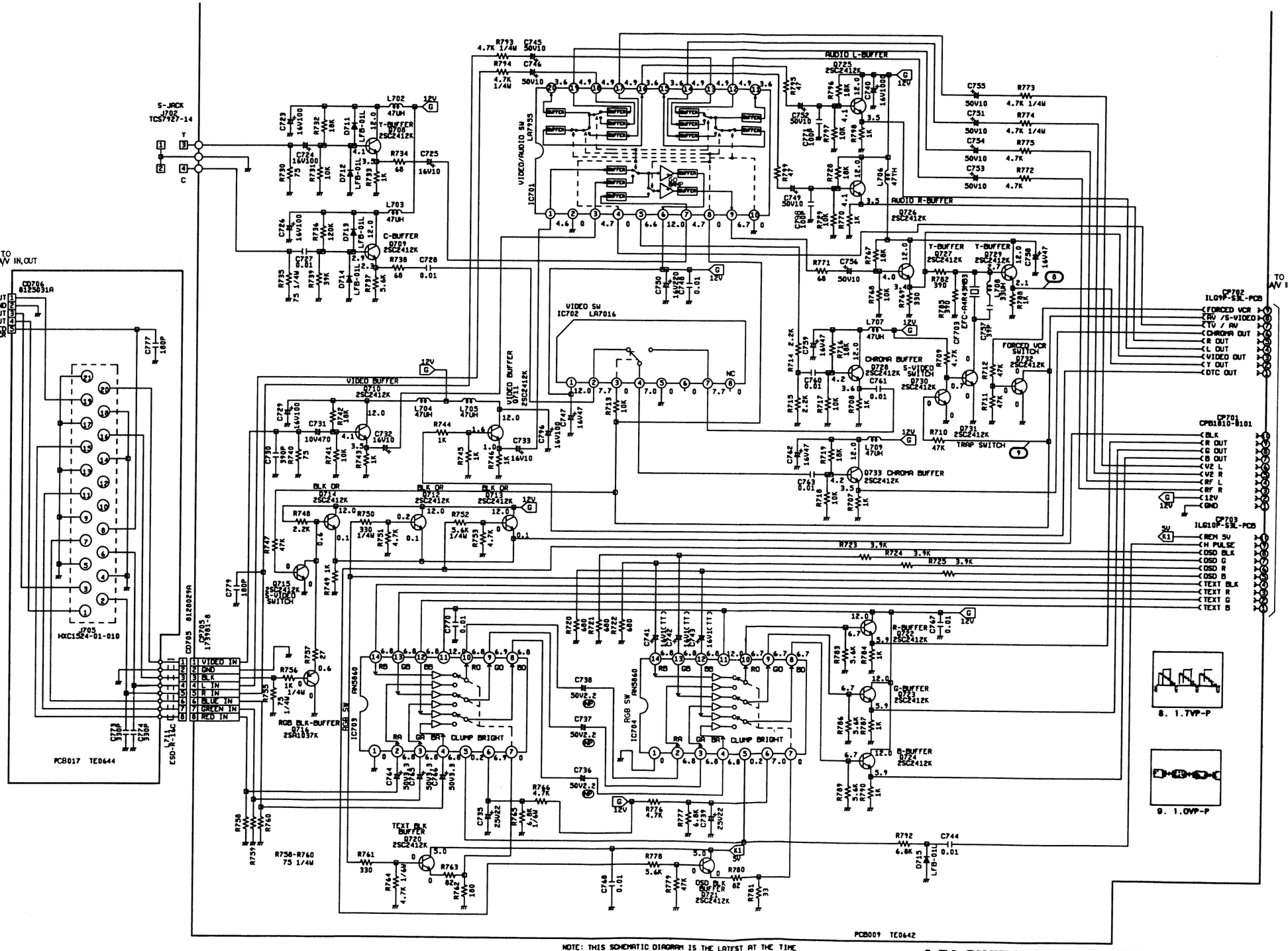


NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

A/V/IN,OUT SCHEMATIC DIAGRAM

1-10832

A/V SWITCH SCHEMATIC DIAGRAM

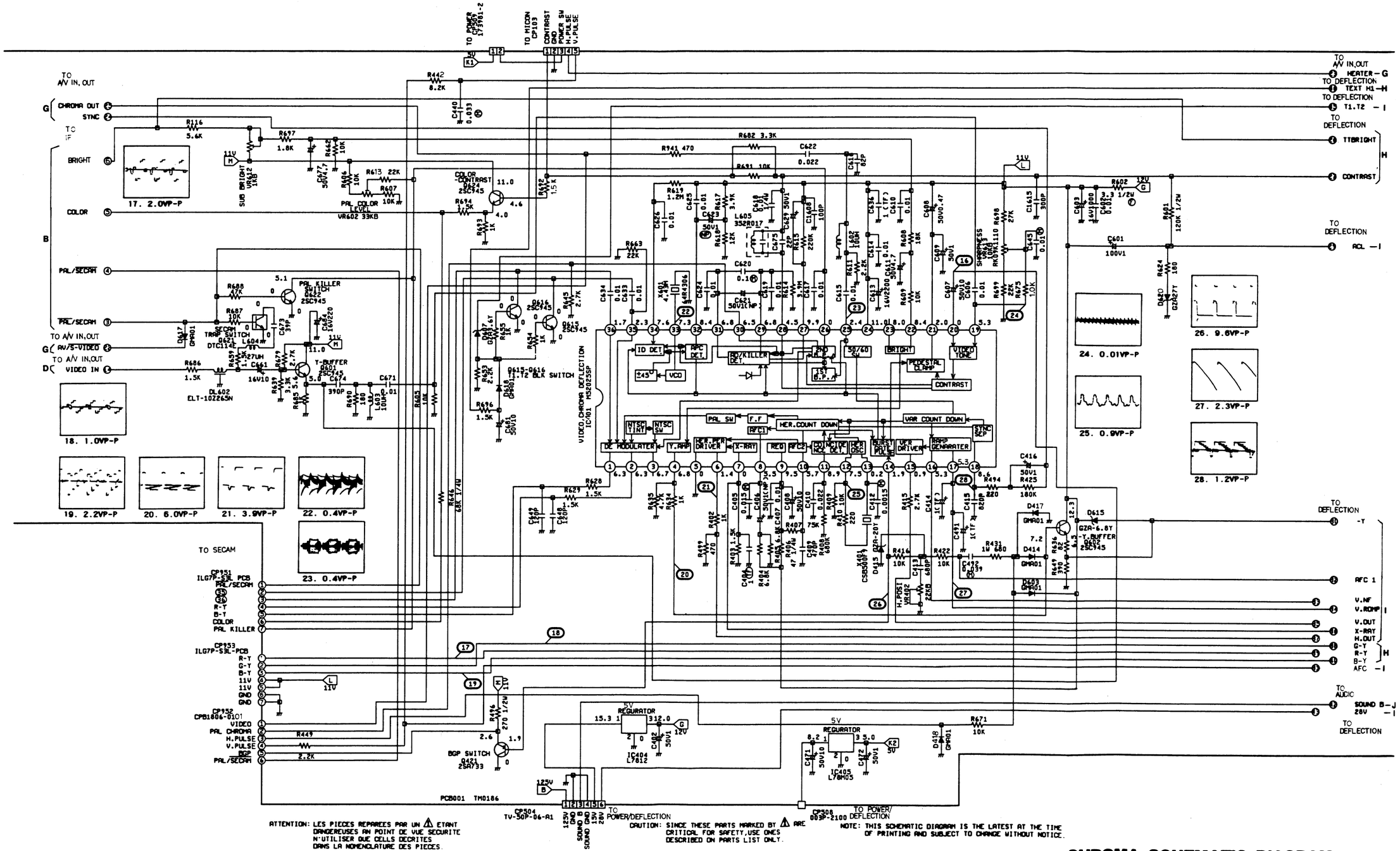


NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

A/V SWITCH SCHEMATIC DIAGRAM

1-10833

CHROMA SCHEMATIC DIAGRAM



ATTENTION: LES PIECES REPEREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES.

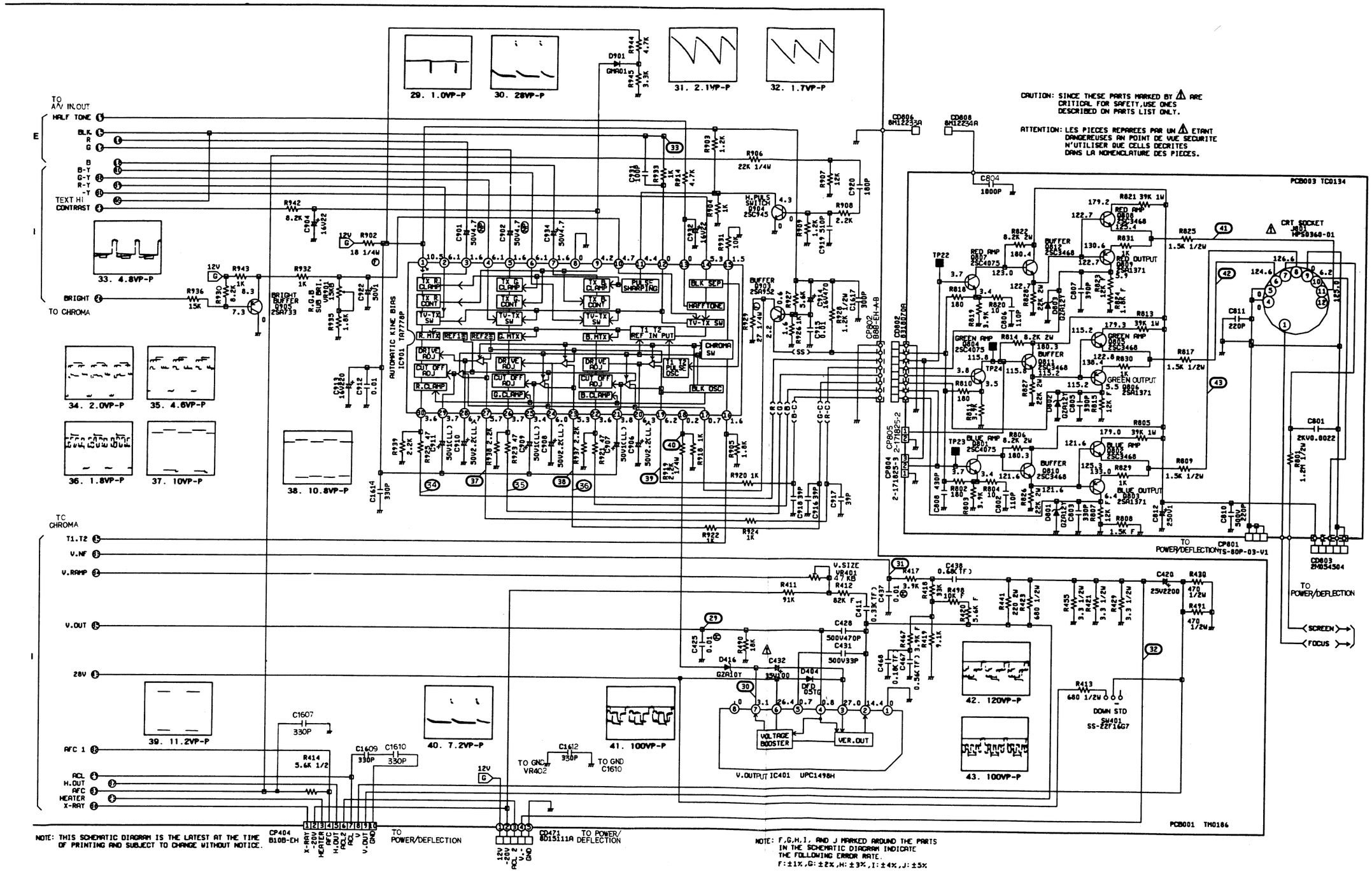
CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED ON PARTS LIST ONLY.

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

CHROMA SCHEMATIC DIAGRAM

1-10834

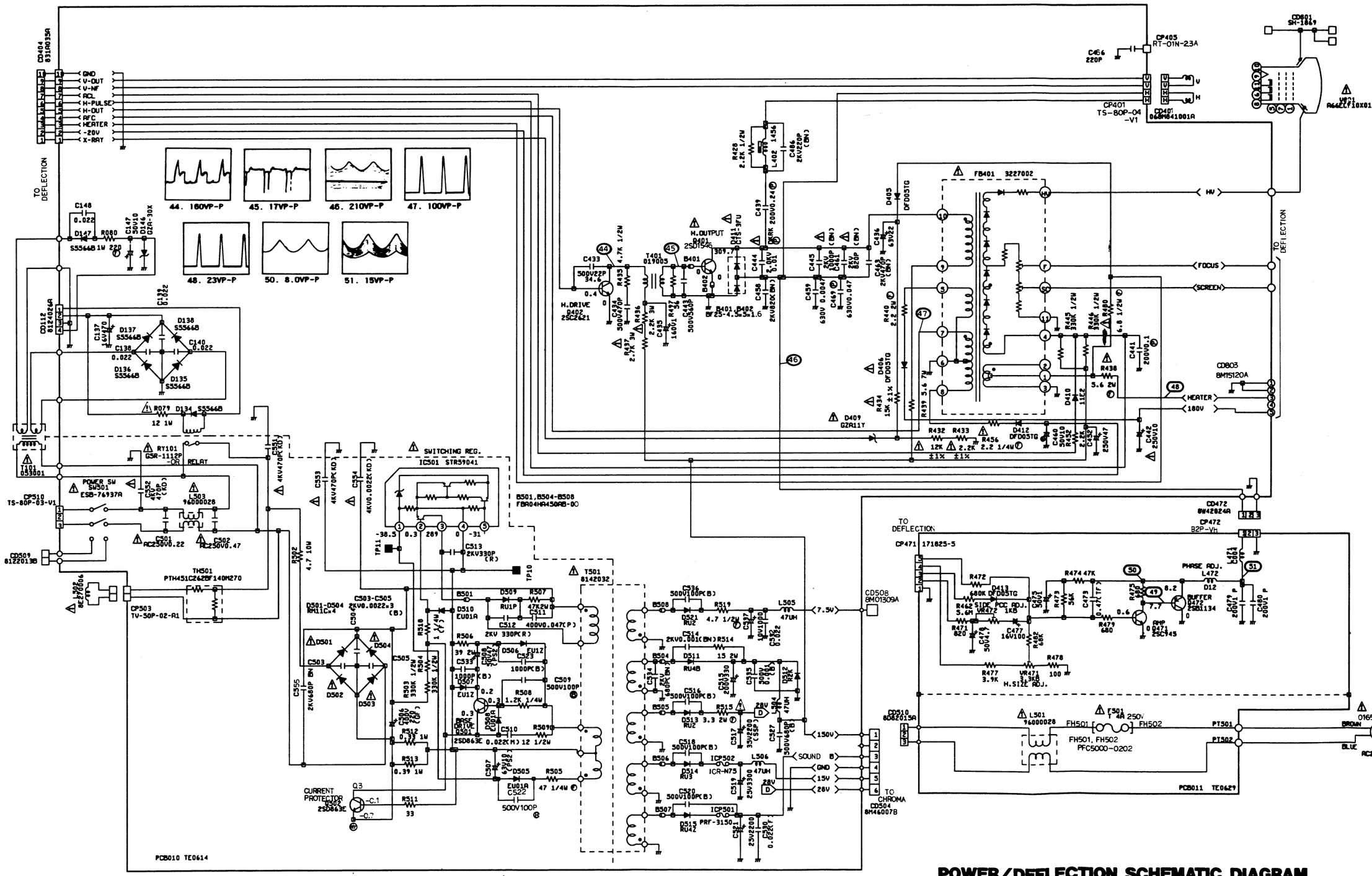
DEFLECTION SCHEMATIC DIAGRAM



DEFLECTION SCHEMATIC DIAGRAM

1-10835

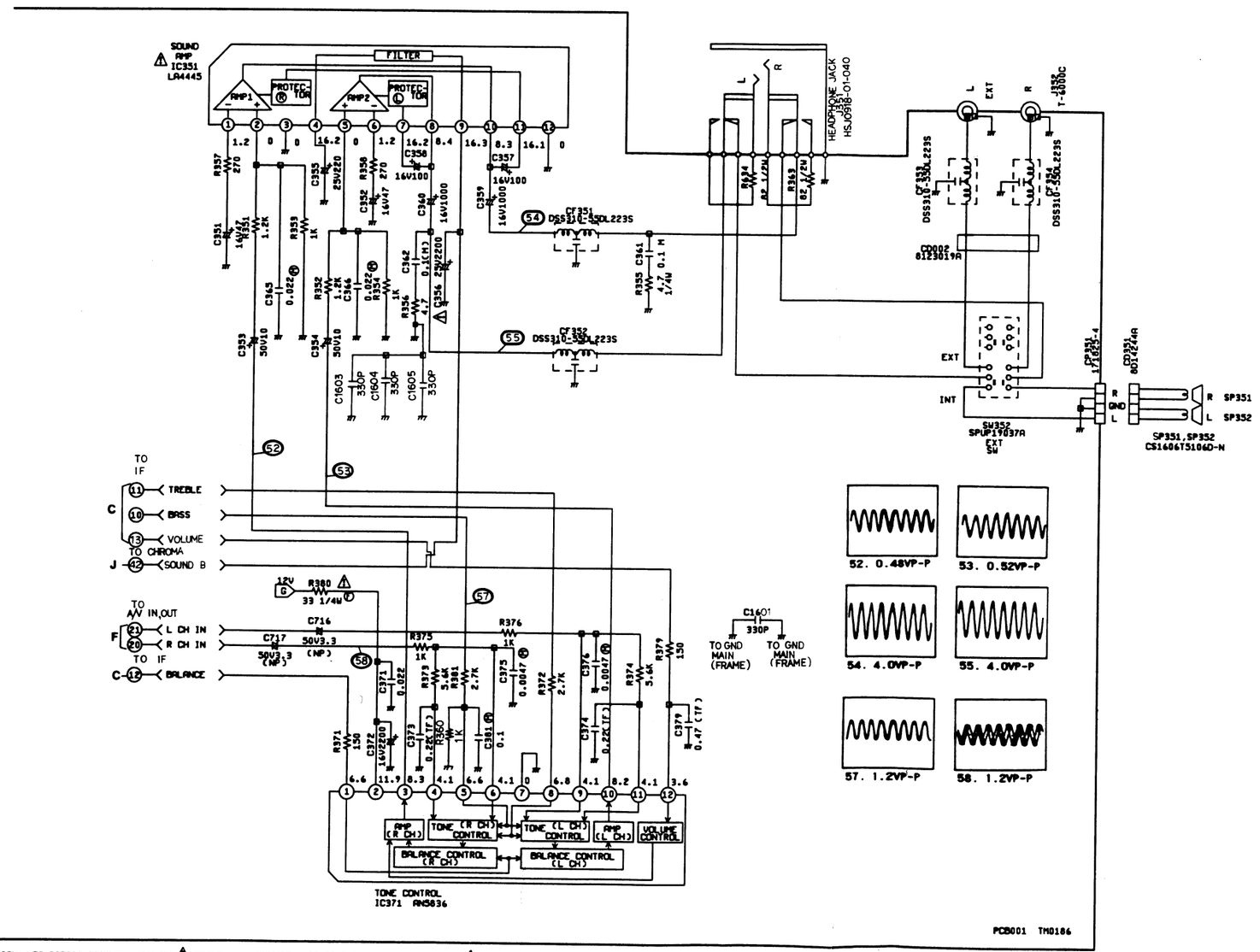
POWER/DEFLECTION SCHEMATIC DIAGRAM



POWER/DEFLECTION SCHEMATIC DIAGRAM

1-10836

AUDIO SCHEMATIC DIAGRAM



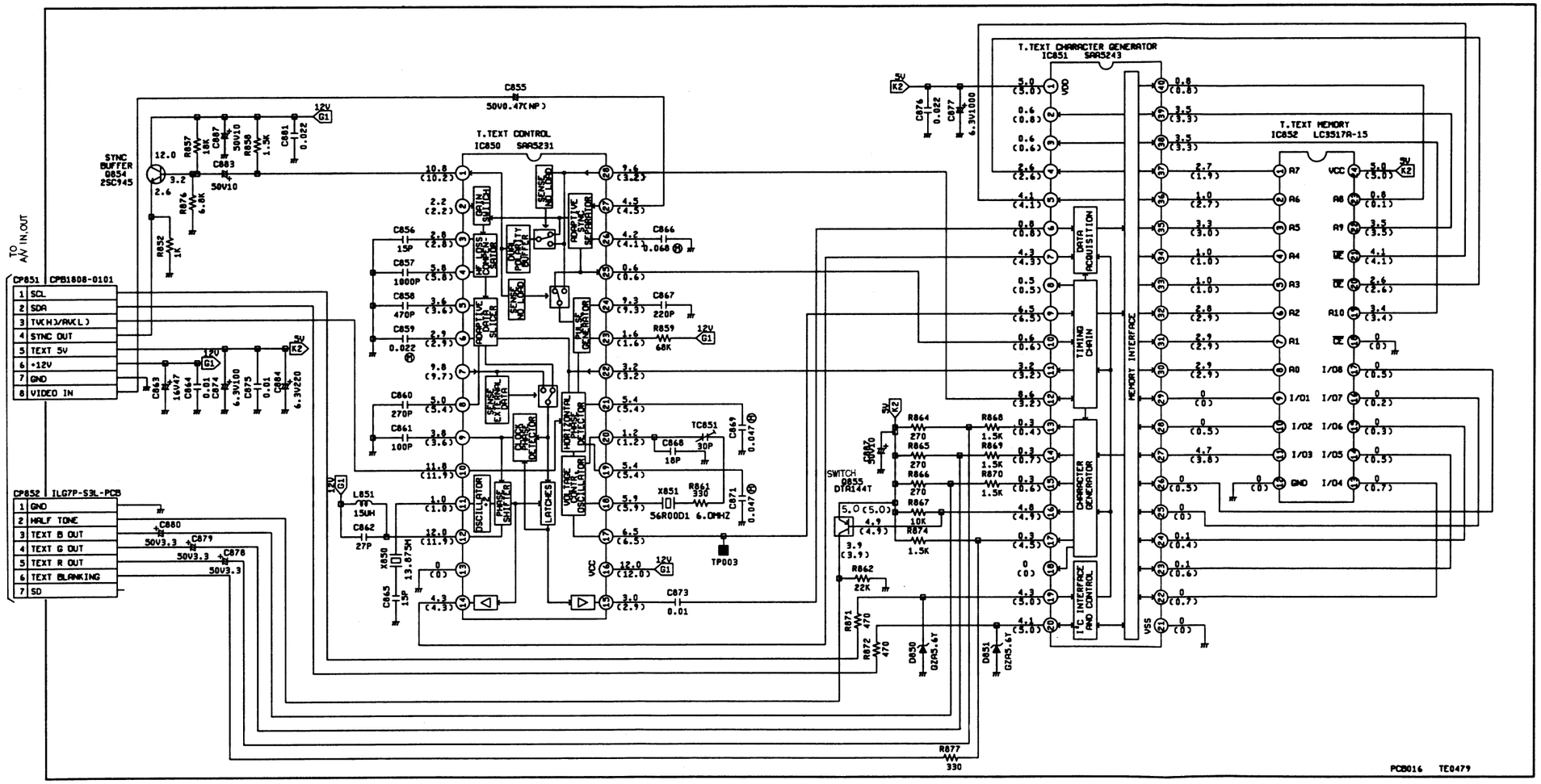
ATTENTION: LES PIECES REPEREES PAR UN ⚠ ETANT DANGEREUSES AU POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES.

CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED ON PARTS LIST ONLY.

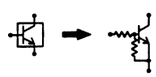
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

AUDIO SCHEMATIC DIAGRAM
1-10837

T'TEXT SCHEMATIC DIAGRAM



CAUTION: DIGITAL TRANSISTOR



CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED ON PARTS LIST ONLY.

ATTENTION: LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES.

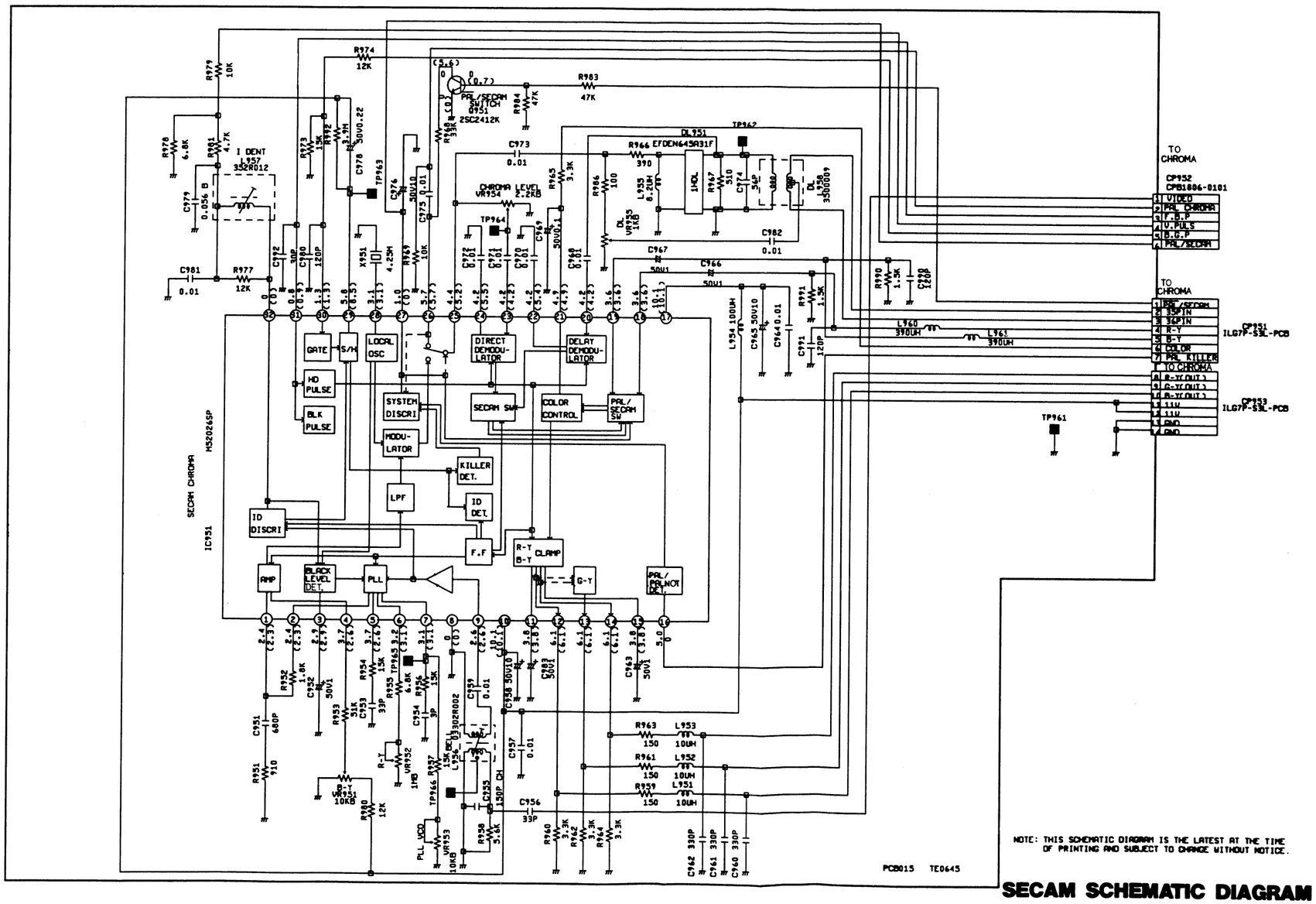
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

NOTE: THE FIGURE WITH ( ) IS THE VOLTAGE IN NORMAL TV OPERATION.
THE FIGURE WITHOUT ( ) IS THE VOLTAGE IN TELETEXT OPERETION.

T'TEXT SCHEMATIC DIAGRAM

1-10838

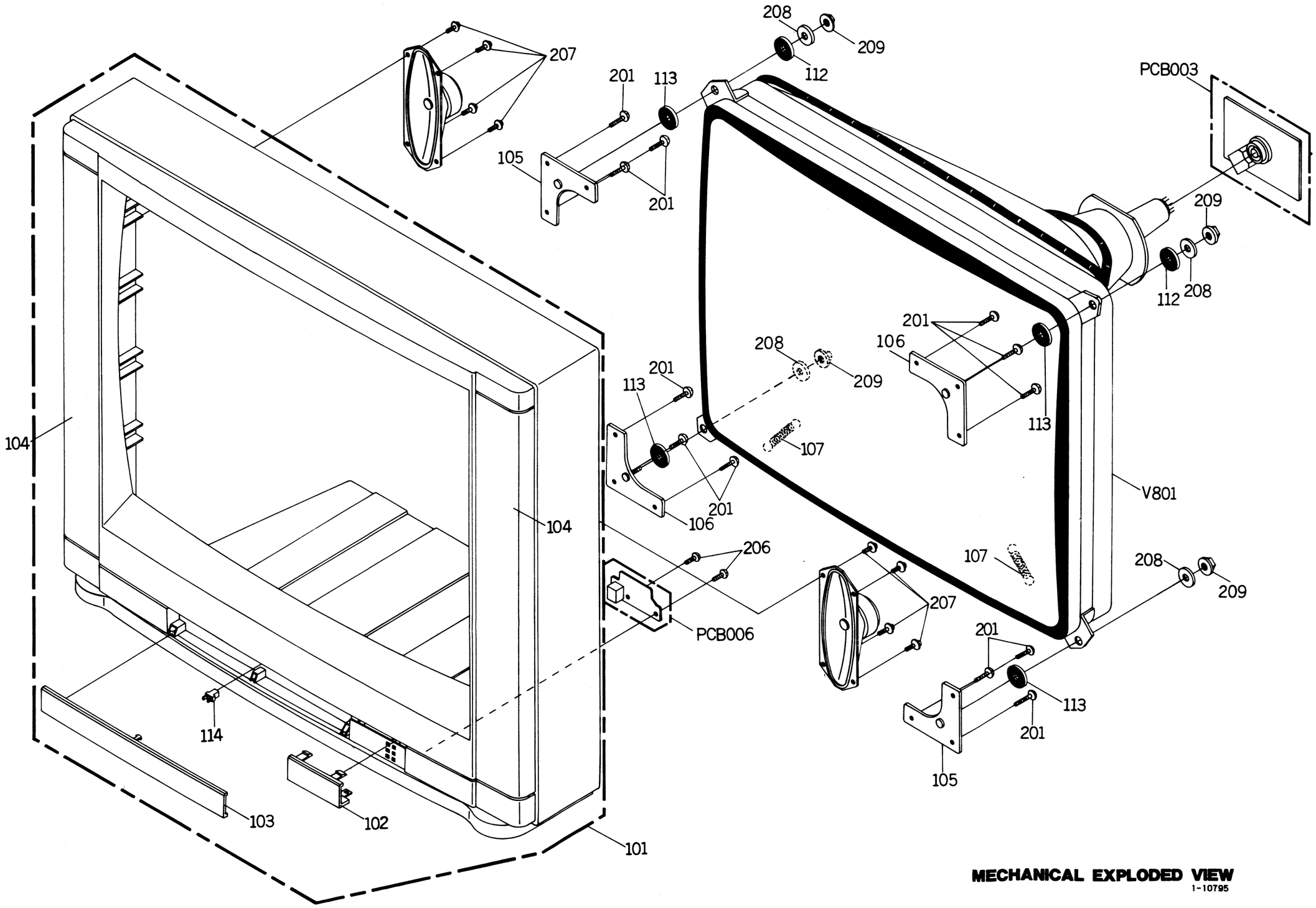
SECAM SCHEMATIC DIAGRAM



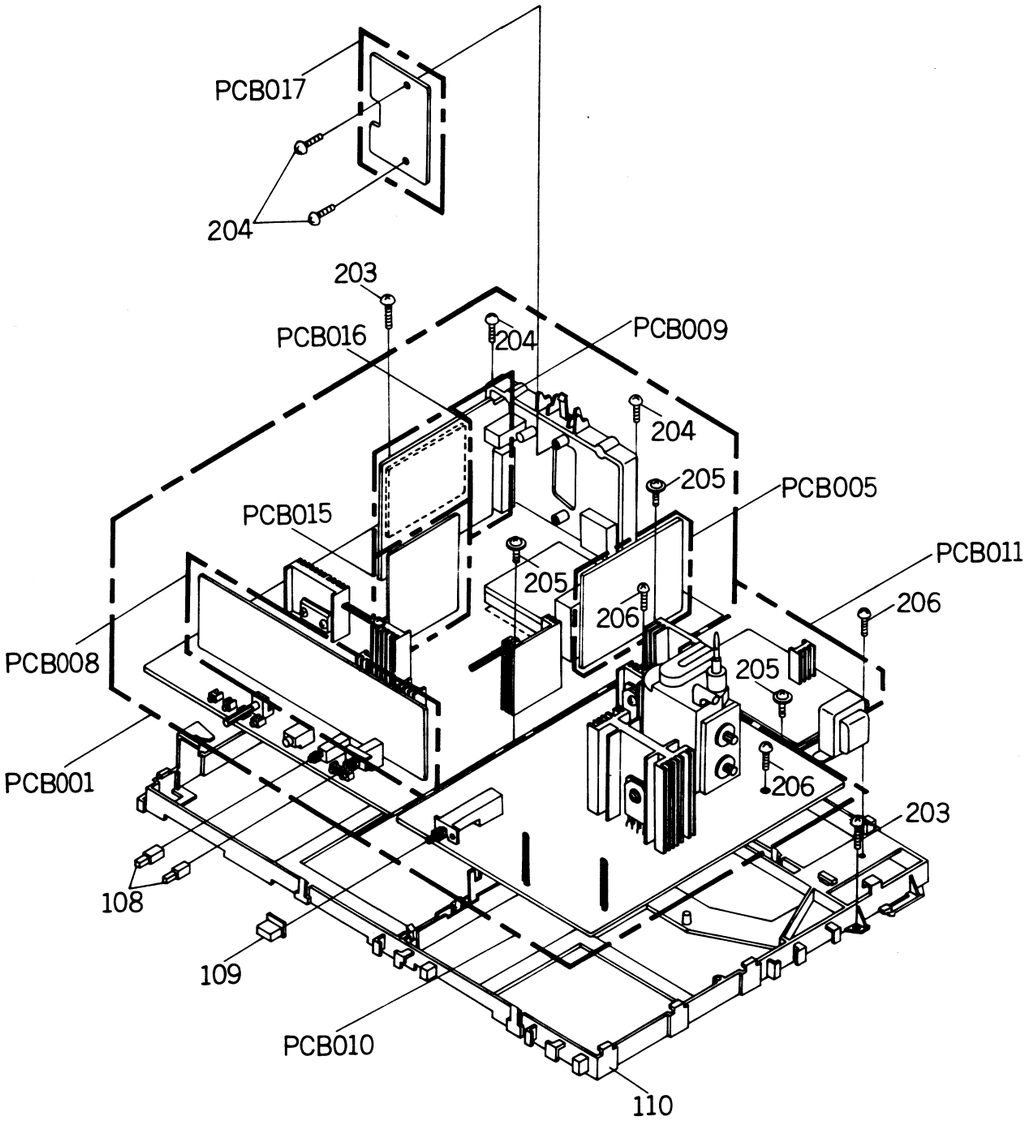
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

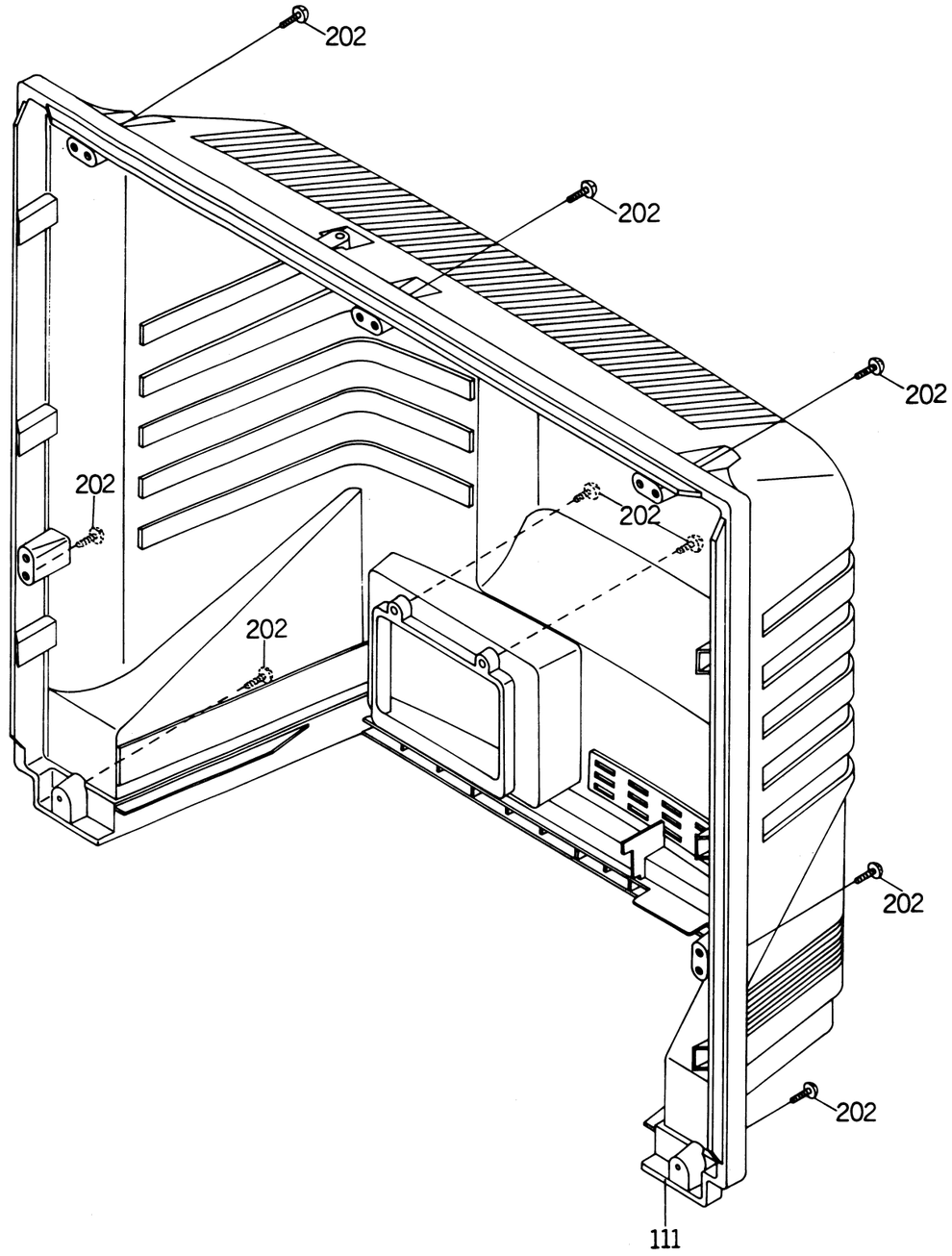
SECAM SCHEMATIC DIAGRAM

1-10839



MECHANICAL EXPLODED VIEW
1-10795





MECHANICAL EXPLODED VIEW
1-10796

MECHANICAL REPLACEMENT PARTS LIST

REF.NO	PART NO	DESCRIPTION	
101	A3A201A720	CABINET,FRONT ASS'Y	
	701UPB0023	CABINET,FRONT	
	7220000888	SHEET,PTB	
	7230003990	PLATE,DOOR	
	7232020210	PLATE,BRAND	
	7240000957	SHEET,REMOCON	
102	711TPD0059	PLATE,FRONT	
103	712TPD0020	DOOR	
104	714KSB0018	GRILL,SPEAKER	
105	762USA0001	ANGLE,CRT	
106	762USA0002	ANGLE,CRT	
107	741TUA0004	SPRING,EARTH	
108	735TPA0085	BUTTON,PUSH	
109	735TPA0101	BUTTON,POWER	
110	762JPA0021	FRAME,PCB	
111	A3A201A740	CABINET,BACK ASS'Y	
	702UPA0057	CABINET,BACK	
	7222021235	SHEET,RATING	
112	800TR00003	SHEET,CRT SUPPORT	
113	800TR00007	SHEET,CRT SUPPORT	
114	890LA10000	NC LACH	
201	8110240B04	TAP TITE(P) BIND	4*20 CH
202	8117540A62	TAPPING(BO) TRUSS	4*16 BK
203	8117540A24	TAPPING(BO) TRUSS	4*12 CH
204	8110630A04	TAP TITE(P) BRAZIER	3*10 CH
205	8117F30A04	TAPPING(BO) WH12	3*10 CH
206	8110630804	TAP TITE(P) BRAZIER	3*8 CH
207	8117D30804	TAPPING(BO) WH8	3*8 CH
208	82A60B2164	WASHER	6.3*22*T1.6
209	8300560004	SL NUT	M6
---	J3A20101A	INSTRUCTION BOOK	
---	J3A20103A	SCHEMATIC DIAGRAM	
---	J3540128B	WARNING SHEET	
---	J4511102C	GUARANTEE CARD	
---	791SHA0032	LAMIFILM,BAG	
---	792UHA0034	PACKAGE,TOP	
---	792UHA0035	PACKAGE,BOTTOM	
---	793UCD0368	GIFT BOX	
---	795UCA0007	PAD	

THIS ELECTRICAL PARTS LIST IS STANDARD PART LIST, BUT
INTERCHANGEABLE PARTS MAY BE USED IN THE UNIT.
SEE THE INTERCHANGEABLE PARTS LIST AFTER THE STANDARD PARTS LIST.

ELECTRICAL REPLACEMENT PARTS LIST

RESISTORS

REF.NO	PART NO	DESCRIPTION			
R039	R61584220J	R,FUSE	22	OHM	1/4W
R078	R3128A153J	R,METAL OXIDE	15K	OHM	2W
⚠ R079	R31181120J	R,METAL OXIDE	12	OHM	1W
R080	R61581221J	R,FUSE	220	OHM	1W
R231	R61584560J	R,FUSE	56	OHM	1/4W
⚠ R380	R61584330J	R,FUSE	33	OHM	1/4W
R406	R61584470J	R,FUSE	47	OHM	1/4W
R430	R00202471J	RC	470	OHM	1/2W
R431	R31181681J	R,METAL OXIDE	680	OHM	1W
⚠ R436	R3128B222J	R,METAL OXIDE	2.2K	OHM	3W
⚠ R437	R3128B272J	R,METAL OXIDE	2.7K	OHM	3W
⚠ R438	R6158A5R6J	R,FUSE	5.6	OHM	2W
R439	R5A2CE5R6K	R,CEMENT	5.6	OHM	7W
R440	R6158A2R2J	R,FUSE	2.2	OHM	2W
R441	R3128A221J	R,METAL OXIDE	220	OHM	2W
⚠ R456	R615842R2J	R,FUSE	2.2	OHM	1/4W
⚠ R480	R635826R8J	R,FUSE	6.8	OHM	1/2W
R491	R00202471J	RC	470	OHM	1/2W
R502	R5A2CF4R7K	R,CEMENT	4.7	OHM	10W
R505	R63584470J	R,FUSE	47	OHM	1/4W
R506	R3118A390J	R,METAL OXIDE	39	OHM	2W
R507	R3118A473J	R,METAL OXIDE	47K	OHM	2W
R512	R31181R33J	R,METAL OXIDE	0.33	OHM	1W
R513	R31181R39J	R,METAL OXIDE	0.39	OHM	1W
R514	R3128A150J	R,METAL OXIDE	15	OHM	2W
⚠ R515	R6158A3R3J	R,FUSE	3.3	OHM	2W
R518	R63584010J	R,FUSE	1	OHM	1/4W
R519	R635824R7J	R,FUSE	4.7	OHM	1/2W
R601	R00202124J	RC	120K	OHM	1/2W
R602	R615823R3J	R,FUSE	3.3	OHM	1/2W
R624	R00106181J	RC	180	OHM	1/6W
R659	R00106152J	RC	1.5K	OHM	1/6W
R663	R00106223J	RC	22K	OHM	1/6W
R671	R00106103J	RC	10K	OHM	1/6W
R682	R00106332J	RC	3.3K	OHM	1/6W
R691	R00106103J	RC	10K	OHM	1/6W
R692	R00106152J	RC	1.5K	OHM	1/6W
R805	R31181393J	R,METAL OXIDE	39K	OHM	1W
R806	R3118A822J	R,METAL OXIDE	8.2K	OHM	2W
R813	R31181393J	R,METAL OXIDE	39K	OHM	1W
R814	R3118A822J	R,METAL OXIDE	8.2K	OHM	2W
R821	R31181393J	R,METAL OXIDE	39K	OHM	1W
R822	R3118A822J	R,METAL OXIDE	8.2K	OHM	2W
R826	R3118A223J	R,METAL OXIDE	22K	OHM	2W
R827	R3118A223J	R,METAL OXIDE	22K	OHM	2W
R828	R3118A223J	R,METAL OXIDE	22K	OHM	2W
R902	R61584180J	R,FUSE	18	OHM	1/4W
R929	R61582270J	R,FUSE	27	OHM	1/2W

CAPACITORS

REF.NO	PART NO	DESCRIPTION				
C148	C0A0F04H4Z	CC	0.022	UF	50V	F
⚠ C356	E02703222M	CE	2200	UF	25V	
C359	E027F2102M	CE	1000	UF	16V	
C372	E027F2222M	CE	2200	UF	16V	
C404	P61300105J	CMPL	1.0	UF	50V	
C414	P61300105J	CMPL	1.0	UF	50V	
C420	E027F3222M	CE	2200	UF	25V	
C439	P441F2244J	CMPP	0.24	UF	200V	
C441	P441F2104J	CMPP	0.1	UF	200V	
⚠ C442	E031FD100M	CE	10	UF	250V	
⚠ C444	P46HFG103H	PMH-COM	0.01	UF	2KV	
⚠ C445	C034BN713K	CC	0.001	UF	2KV	
C452	E0250D470M	CE	47	UF	250V	
C458	C0D4BN7W2K	CC	820	PF	2KV	BN
C459	P341F5472J	CPP	0.0047	UF	630V	
⚠ C461	C0D4BN7W2K	CC	820	PF	2KV	BN
C463	C0D4BN7Q2K	CC	470	PF	2KV	BN
C467	P613F0184J	CMPL	0.18	UF	50V	
C469	P341F5473J	CPP	0.047	UF	630V	
C479	P441F2105J	CMPP	1	UF	200V	
C480	P441F2105J	CMPP	1	UF	200V	
C486	C0D0BN7H2K	CC	220	PF	2KV	
C491	P61300105J	CMPL	1.0	UF	50V	
C492	P13300393J	CP	0.039	UF	50V	
⚠ C501	P2160B224M	CPP	0.22	UF	250V	
⚠ C502	P2160B474M	CPP	0.47	UF	250V	
⚠ C503	C0ABB07H3K	CC	2200	PF	2KV	B
⚠ C504	C0ABB07H3K	CC	2200	PF	2KV	B
⚠ C505	C0ABB07H3K	CC	2200	PF	2KV	B
C506	E03SFH221M	CE	220	UF	400V	

CAPACITORS (CONT)

REF.NO	PART NO	DESCRIPTION				
C507	E02QF6100M	CE	10	UF	63V	
C508	E02QF5470M	CE	47	UF	50V	
C511	P341F4473J	CPP	0.047	UF	400V	
C512	C03F0R7L2K	CC	330	PF	2KV	
C513	C03F0R7L2K	CC	330	PF	2KV	
C514	C0D4BN713K	CC	1000	PF	2KV	BN
C515	E02KFV331M	CE	330	UF	200V	
C517	E027F4222M	CE	2200	UF	35V	
C519	E02SF3332M	CE	3300	UF	25V	
C521	E027F3222M	CE	2200	UF	25V	
⚠ C534	C0D4BN7U2K	CC	680	PF	2KV	BN
⚠ C551	CA1030KQ2M	CC	470	PF	400V	AC
⚠ C552	CA1030KQ2M	CC	470	PF	400V	AC
⚠ C553	CA1030KQ2M	CC	470	PF	400V	AC
⚠ C554	CA1030KH3M	CC	2200	PF	400V	AC
C555	C0D0BN7U2K	CC	680	PF	2KV	
C613	E02702222M	CE	2200	UF	16V	
C621	E02E05010M	CE	1	UF	50V	
C636	P61300105J	CMPL	1.0	UF	50V	
C645	P13300103J	CP	0.01	UF	50V	
C677	E027054R7M	CE	4.7	UF	50V	
C682	P61300684J	CMPL	0.68	UF	50V	
C684	E02702221M	CE	220	UF	16V	
C778	C020SL4G2J	CC	180	PF	50V	SL
C779	C020SL4G2J	CC	180	PF	50V	SL
C801	C02BB07H3K	CC	0.0022	UF	2KV	B
C875	C0A0F0414Z	CC	0.01	UF	50V	F
C877	E011F0102M	CE	1000	UF	6.3V	
C887	E02705100M	CE	10	UF	50V	
C1601	C020SL4L2J	CC	330	PF	50V	SL
C1603	C020SL4L2J	CC	330	PF	50V	SL
C1604	C020SL4L2J	CC	330	PF	50V	SL
C1605	C020SL4L2J	CC	330	PF	50V	SL
C1607	C020SL4L2J	CC	330	PF	50V	SL
C1608	C020SL412J	CC	100	PF	50V	SL
C1609	C020SL4L2J	CC	330	PF	50V	SL
C1610	C020SL4L2J	CC	330	PF	50V	SL
C1611	C020SL4L2J	CC	330	PF	50V	SL
C1612	C020SL4L2J	CC	330	PF	50V	SL
C1616	C020SL4L2J	CC	330	PF	50V	SL
C1618	C020SL4L2J	CC	330	PF	50V	SL

SEMICONDUCTORS

REF.NO	PART NO	DESCRIPTION	
D031	DD3RLFB01L	DIODE,SILICON	LFB-01L
D032	DD3RLFB01L	DIODE,SILICON	LFB-01L
D033	DD3RLFB01L	DIODE,SILICON	LFB-01L
D101	002132Q010	LED	SLZ-136C-07-T1
D102	002132Q010	LED	SLZ-136C-07-T1
D103	002132Q010	LED	SLZ-136C-07-T1
D104	002132Q010	LED	SLZ-136C-07-T1
D106	D93T06R80Y	DIODE,ZENER	GZA6.8 Y BT
D115	DD3RLFB01L	DIODE,SILICON	LFB-01L
D116	DD3RLFB01L	DIODE,SILICON	LFB-01L
D118	DD3RLFB01L	DIODE,SILICON	LFB-01L
D119	DD3RLFB01L	DIODE,SILICON	LFB-01L
D120	DD3RLFB01L	DIODE,SILICON	LFB-01L
D121	DD3RLFB01L	DIODE,SILICON	LFB-01L
D122	DD3RLFB01L	DIODE,SILICON	LFB-01L
D123	DD3RLFB01L	DIODE,SILICON	LFB-01L
D124	DD3RLFB01L	DIODE,SILICON	LFB-01L
D125	DD3RLFB01L	DIODE,SILICON	LFB-01L
D126	DD3RLFB01L	DIODE,SILICON	LFB-01L
D127	DD3RLFB01L	DIODE,SILICON	LFB-01L
D128	DD3RLFB01L	DIODE,SILICON	LFB-01L
D129	DD3RLFB01L	DIODE,SILICON	LFB-01L
D130	DD3RLFB01L	DIODE,SILICON	LFB-01L
D131	DD3RLFB01L	DIODE,SILICON	LFB-01L
D132	DD3RLFB01L	DIODE,SILICON	LFB-01L
D134	D25T5566B0	DIODE,RECTIFIER	S5566B(TPA3)
D135	D25T5566B0	DIODE,RECTIFIER	S5566B(TPA3)
D136	D25T5566B0	DIODE,RECTIFIER	S5566B(TPA3)
D137	D25T5566B0	DIODE,RECTIFIER	S5566B(TPA3)
D138	D25T5566B0	DIODE,RECTIFIER	S5566B(TPA3)
D143	D93T05R10Y	DIODE,ZENER	GZA5.1 Y BT-T
D146	D93T03000X	DIODE,ZENER	GZA30 X BT
D147	D25T5566B0	DIODE,RECTIFIER	S5566B(TPA3)
D148	DD3RLFB01L	DIODE,SILICON	LFB-01L
D162	DD3RLFB01L	DIODE,SILICON	LFB-01L
D404	D23TFD05TG	DIODE,RECTIFIER	DFD05TG-BT
D405	D23TFD05TG	DIODE,RECTIFIER	DFD05TG-BT
D406	D23TFD05TG	DIODE,RECTIFIER	DFD05TG-BT
D409	D93T01100Y	DIODE,ZENER	GZA11 Y BT
D410	D28T011E20	DIODE,SILICON	11E2TA1

ELECTRICAL REPLACEMENT PARTS LIST

REF.NO	PART NO	DESCRIPTION
	SEMICONDUCTORS (CONT)	
⚠ D411	DCBFTS3FU0	DIODE,STACK CTS-3FU
D412	D23TFD05TG	DIODE,RECTIFIER DFD05TG-BT
D413	D23TFD05TG	DIODE,RECTIFIER DFD05TG-BT
D414	D13TGMA010	DIODE,SILICON GMA-01-BT
D415	D93T02000Y	DIODE,ZENER GZA20 Y BT
D416	D93T01000X	DIODE,ZENER GZA10 X BT
D417	D13TGMA010	DIODE,SILICON GMA-01-BT
D418	D130GMA010	DIODE,SILICON GMA-01
⚠ D501	D2BHRM11C0	DIODE,RECTIFIER RM11C
⚠ D502	D2BHRM11C0	DIODE,RECTIFIER RM11C
⚠ D503	D2BHRM11C0	DIODE,RECTIFIER RM11C
⚠ D504	D2BHRM11C0	DIODE,RECTIFIER RM11C
D505	D2BT0EU01A	DIODE,SILICON EU01AV0
D506	D2BH00EU1Z	DIODE,RECTIFIER EU1Z
D507	D2BH00EU1Z	DIODE,RECTIFIER EU1Z
D508	D2BT0EU01A	DIODE,SILICON EU01AV0
D509	D2B00RU1P0	DIODE,RECTIFIER RU1P
D510	D2BT0EU01A	DIODE,SILICON EU01AV0
D511	D2BF0RU480	DIODE,SILICON RU4B
D512	D2B000R2K0	DIODE,AVALANCHE R2K
D513	D2BF00RU20	DIODE,SILICON RU-2
D514	D2B000RU30	DIODE,SILICON RU 3
D515	D2BJ00RU4Z	DIODE,RECTIFIER RU4Z
D521	D2BF00RU20	DIODE,SILICON RU-2
D603	D13TGMA010	DIODE,SILICON GMA-01-BT
D607	D93T03R60X	DIODE,ZENER GZA3.6 X BT
D615	D93T06R80Y	DIODE,ZENER GZA6.8 Y BT
D617	D13TGMA010	DIODE,SILICON GMA-01-BT
D618	D130GMA010	DIODE,SILICON GMA-01
D620	D93T02700Y	DIODE,ZENER GZA27 Y BT
D711	DD3RLFB01L	DIODE,SILICON LFB-01L
D712	DD3RLFB01L	DIODE,SILICON LFB-01L
D713	DD3RLFB01L	DIODE,SILICON LFB-01L
D714	DD3RLFB01L	DIODE,SILICON LFB-01L
D715	DD3RLFB01L	DIODE,SILICON LFB-01L
D732	D93T05R60Y	DIODE,ZENER GZA5.6 Y BT
D801	D93T01200Y	DIODE,ZENER GZA12 Y BT
D802	D93T01200Y	DIODE,ZENER GZA12 Y BT
D803	D93T01200Y	DIODE,ZENER GZA12 Y BT
D850	D93005R60Y	DIODE,ZENER GZA5.6 Y
D851	D93005R60Y	DIODE,ZENER GZA5.6 Y
D901	D13TGMA010	DIODE,SILICON GMA-01-BT
IC031	I0GDF3P020	IC IR3P02
IC032	I03S063580	IC LA6358S
IC101	I51D080328	IC OEC80328
IC102	I03B98M050	IC L78M05-SA
IC103	I52D010130	IC OEC1013
IC105	I01901280S	IC MN1280S
IC106	IA1DN12200	IC MN1220
IC133	I02190574J	IC UPC574J-T
IC201	I06DA365SP	IC M51365SP
IC202	I03S072100	IC LA7210
⚠ IC351	I03SP44450	IC LA4445
IC371	I01S058360	IC AN5836
IC401	I02SD14980	IC UPC1498H
IC404	I03B97812V	IC L7812V-SA
IC405	I03B98M050	IC L78M05-SA
⚠ IC501	I2B4990410	IC STR59041
IC601	I06DE20250	IC M52025SP
IC701	I03DE79550	IC LA7955
IC702	I03S070160	IC LA7016
IC703	I01D058600	IC AN5860
IC704	I01D058600	IC AN5860
IC850	I9KDF52310	IC SAA5231
IC851	I4KDF52430	IC SAA5243
IC852	I53D03517C	IC LC3517A-15
IC901	I05DE77780	IC TA7778P
IC951	I06DE20260	IC M52026SP
Q030	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q031	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q032	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q033	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q034	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q035	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q036	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q037	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q038	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q039	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q040	T67A1037K0	TRANSISTOR,SILICON 2SA1037KT147
Q041	T67A1037K0	TRANSISTOR,SILICON 2SA1037KT147
Q042	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q101	T67A1037K0	TRANSISTOR,SILICON 2SA1037KT147
Q102	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147

REF.NO	PART NO	DESCRIPTION
	SEMICONDUCTORS (CONT)	
Q103	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q104	TC2T009450	TRANSISTOR,SILICON 2SC945-T
Q105	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q106	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q107	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q108	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q109	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q110	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q111	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q112	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q113	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q114	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q115	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q116	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q117	T67A1037K0	TRANSISTOR,SILICON 2SA1037KT147
Q118	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q119	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q120	T67A1037K0	TRANSISTOR,SILICON 2SA1037KT147
Q121	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q122	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q123	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q124	TD3T007340	TRANSISTOR,SILICON 2SD794-AA
Q126	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q201	TC3T030000	TRANSISTOR,SILICON 2SC3000-AA
Q202	TA2T007330	TRANSISTOR,SILICON 2SA733-T
Q203	TC2T009450	TRANSISTOR,SILICON 2SC945-T
⚠ Q401	TD5Q015460	TRANSISTOR,SILICON 2SD1546
Q402	TC3Q026210	TRANSISTOR,SILICON 2SC2621-RAC
Q421	TA2T007330	TRANSISTOR,SILICON 2SA733-T
Q471	TC2T009450	TRANSISTOR,SILICON 2SC945-T
Q472	TB3G01134R	TRANSISTOR,SILICON 2SB1134R-SA
Q501	TD3T00863E	TRANSISTOR,SILICON 2SD863E-AE
Q502	TD3T00863E	TRANSISTOR,SILICON 2SD863E-AE
Q601	TC2T009450	TRANSISTOR,SILICON 2SC945-T
Q602	TC2T009450	TRANSISTOR,SILICON 2SC945-T
Q615	TC2T009450	TRANSISTOR,SILICON 2SC945-T
Q616	TC2T009450	TRANSISTOR,SILICON 2SC945-T
Q621	TN7TB03001	COMPOUND TRANSISTOR DTC114ESTP
Q622	TC2T009450	TRANSISTOR,SILICON 2SC945-T
Q624	TC2T009450	TRANSISTOR,SILICON 2SC945-T
Q701	TC2T009450	TRANSISTOR,SILICON 2SC945-T
Q708	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q709	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q710	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q711	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q712	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q713	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q714	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q715	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q716	T67A1037K0	TRANSISTOR,SILICON 2SA1037KT147
Q720	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q721	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q722	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q723	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q724	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q725	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q726	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q727	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q728	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q729	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q730	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q731	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q732	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q733	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147
Q734	TC2T009450	TRANSISTOR,SILICON 2SC945-T
Q801	TC3Q040750	TRANSISTOR,SILICON 2SC4075-YAC
Q802	TC3T034680	TRANSISTOR,SILICON 2SC3468-AE
Q803	TA3T1371A0	TRANSISTOR,SILICON 2SA1371-AE
Q804	TC3Q040750	TRANSISTOR,SILICON 2SC4075-YAC
Q805	TC3T034680	TRANSISTOR,SILICON 2SC3468-AE
Q806	TA3T1371A0	TRANSISTOR,SILICON 2SA1371-AE
Q807	TC3Q040750	TRANSISTOR,SILICON 2SC4075-YAC
Q808	TC3T034680	TRANSISTOR,SILICON 2SC3468-AE
Q809	TA3T1371A0	TRANSISTOR,SILICON 2SA1371-AE
Q810	TC3T034680	TRANSISTOR,SILICON 2SC3468-AE
Q811	TC3T034680	TRANSISTOR,SILICON 2SC3468-AE
Q812	TC3T034680	TRANSISTOR,SILICON 2SC3468-AE
Q854	TC2T009450	TRANSISTOR,SILICON 2SC945-T
Q855	TP7TD03002	COMPOUND TRANSISTOR DTA144TSTP
Q903	TA2T00952L	TRANSISTOR,SILICON 2SA952LT
Q904	TC2T009450	TRANSISTOR,SILICON 2SC945-T
Q905	TA2T007330	TRANSISTOR,SILICON 2SA733-T
Q951	T87A02412K	TRANSISTOR,SILICON 2SC2412KT147

ELECTRICAL REPLACEMENT PARTS LIST

REF.NO	PART NO	DESCRIPTION	
L031	0216736R8K	COIL	6.8 UH
L032	03361E0011	COIL,SOUND IFT	361E001
L033	0326410011	COIL,TRAP	2641001
L034	03361B0051	COIL,SOUND IFT	361B005
L035	0326410021	COIL,TRAP	2641002
L036	021673101K	COIL	100 UH
L101	021673330K	COIL	33 UH
L102	021673560K	COIL	56 UH
L201	03360N0028	COIL,DET	360N002
L202	021673680K	COIL	68 UH
L203	0216731R2K	COIL	1.2 UH
L204	0336050038	COIL,MATCHING	3605003
L205	021673820K	COIL	82 UH
L206	021673680K	COIL	68 UH
L207	021JA6150K	COIL	15 UH
L211	03360L0018	COIL,TRAP	360L001
L215	021JA6R47M	COIL	0.47 UH
L216	0336010028	COIL,DET	3601002
L303	021673101K	COIL	100 UH
L402	0221000003	COIL,LINEARITY	1456MS
L471	02C8000004	SIDE PIN MODURATOR COIL	C8000004
L472	02D8000012	TIB PIN PHASE COIL	D8000012
⚠ L501	0296000028	COIL,LINE FILTER	96000028
⚠ L502	028E270006	COIL DEGAUSS	8E270006
L503	0296000028	COIL,LINE FILTER	96000028
L504	02186D470K	COIL	47 UH
L505	021J74470K	COIL	47 UH
L506	02186D470K	COIL	47 UH
L602	021JA6100K	COIL	10 UH
L603	021JA6100K	COIL	10 UH
L604	021J96270K	COIL	27 UH
L605	03352R0177	COIL,CHROMA	352R017
L701	021JA6470K	COIL	47 UH
L702	021JA6470K	COIL	47 UH
L703	021JA6470K	COIL	47 UH
L704	021JA6470K	COIL	47 UH
L705	021JA6470K	COIL	47 UH
L706	021JA6470K	COIL	47 UH
L707	021JA6470K	COIL	47 UH
L708	021JA6330K	COIL	33 UH
L709	021JA6470K	COIL	47 UH
L711	02AXA509C1	FILTER,LINE	ESD-R-16C
L801	02AX2614F2	FILTER,LINE AC	ESD-R-25D-B1
L851	021673150K	COIL	15 UH
L951	021JA6100K	COIL	10 UH
L952	021JA6100K	COIL	10 UH
L953	021JA6100K	COIL	10 UH
L954	021JA6101K	COIL	100 UH
L955	021JA68R2K	COIL	8.2 UH
L956	03302R0028	COIL,CHROMA	302R002
L957	03352R0128	COIL,CHROMA	352R012
L958	0335000098	COIL,MATCHING	3500009
L960	021673391K	COIL	390 UH
L961	021673391K	COIL	390 UH
⚠ T101	0405300012	REMOCON TRANS	0530001
T401	0450190051	TRANS.,HORIZONTAL DRIVE	019005
⚠ T501	0481420325	CONVERTER TRANS	8142032

JACKS

J351	0602131001	JACK,RCA 3.5	HSJ0918-01-040
J352	063P000047	PUSH,TERMINAL	T-6000C
J701	0632000055	JACK,PLATE	JXT0905-010110
J702	0622740004	JACK,S-VHS	TCS7927-14
J705	0632100014	SOCKET,21PIN	HXC1524-01-010
⚠ J801	0662130010	SOCKET,CRT	HPS2360-01-020

SWITCHES

SW105	0504201T30	SWITCH,TACT	SKHVLH006B
SW106	0504201T30	SWITCH,TACT	SKHVLH006B
SW107	0504201T30	SWITCH,TACT	SKHVLH006B
SW108	0504201T30	SWITCH,TACT	SKHVLH006B
SW110	0504201T30	SWITCH,TACT	SKHVLH006B
SW111	0504201T30	SWITCH,TACT	SKHVLH006B
SW351	0500201022	SWITCH,PUSH	SPUN12519A
SW352	0500201021	SWITCH,PUSH	SPUP19037A
SW401	0510B22001	SWITCH,SLIDE	SS-22F16G7
⚠ SW501	0530102008	SWITCH,PUSH	ESB-76937A

VARIABLE RESISTORS

VR031	V126315B03	VR,SEMIFIXED	RH0624C15J0E
VR032	V1163U3BT6	VR,SEMIFIXED	EVNDXAA03BS3
VR033	V1163Q5BT6	VR,SEMIFIXED	EVNDXAA03BQ5
VR034	V116315BT6	VR,SEMIFIXED	EVNDXAA03B15

REF.NO	PART NO	DESCRIPTION	
VARIABLE RESISTORS (CONT)			
VR201	V116314BT6	VR,SEMIFIXED	EVNDXAA03B14
VR401	V1263Q4B03	VR,SEMIFIXED	RH0624CS4J0A
VR402	V1163H4BT6	VR,SEMIFIXED	EVNDXAA03BE4
VR471	V1163L3BT6	VR,SEMIFIXED	EVNDXAA03BY3
VR472	V116313BT6	VR,SEMIFIXED	EVNDXAA03B13
VR602	V1163L4BT6	VR,SEMIFIXED	EVNDXAA03BY4
VR612	V126213B01	VR,SEMIFIXED	RH0614C13J0B
VR613	V0292000005	VR,ROTARY	RK09K1110
VR614	V1262Q3B01	VR,SEMIFIXED	RH0614CS3J09
VR901	V116313BT6	VR,SEMIFIXED	EVNDXAA03B13
VR951	V116314BT6	VR,SEMIFIXED	EVNDXAA03B14
VR952	V126316B03	VR,SEMIFIXED	RH0624C16J
VR953	V126314B03	VR,SEMIFIXED	RH0624C14J0D
VR954	V1163H3BT6	VR,SEMIFIXED	EVNDXAA03BE3
VR955	V116313BT6	VR,SEMIFIXED	EVNDXAA03B13
P.C. BOARDS ASS'Y			
PCB001	A3A201A01A	PCB ASS'Y	TM0186-1
PCB003	A3A201A11A	PCB ASS'Y	TC0134
PCB005	A3A201A18A	PCB ASS'Y	TE0641
PCB006	A3A201A03A	PCB ASS'Y	TE0717
PCB008	A3A201A29A	PCB ASS'Y	TE0640
PCB009	A3A201A32A	PCB ASS'Y	TE0642
PCB010	A3A201A02A	PCB ASS'Y	TE0614
PCB011	A3A201A09A	PCB ASS'Y	TE0629
PCB015	A3A201A14A	PCB ASS'Y	TE0645
PCB016	A3A201A15A	PCB ASS'Y	TE0479
PCB017	A3A201A28A	PCB ASS'Y	TE0644
MISCELLANEOUS			
B401	0246451652	CORE,BEADS	BF25-4.5*5*1.6
B402	0246451652	CORE,BEADS	BF25-4.5*5*1.6
B501	024JT03551	CORE,BEADS	FBA04HA450AB-00
B504	024JT03551	CORE,BEADS	FBA04HA450AB-00
B505	024JT03551	CORE,BEADS	FBA04HA450AB-00
B506	024JT03551	CORE,BEADS	FBA04HA450AB-00
B507	024JT03551	CORE,BEADS	FBA04HA450AB-00
B508	024JT03551	CORE,BEADS	FBA04HA450AB-00
BT001	141T004003	BATTERY,MANGAN	UM-4
BT002	141T004003	BATTERY,MANGAN	UM-4
CD001	068WB90001	CORD,COAXIAL	8WB90001
CD002	068123019A	CORD,CONNECTOR	8123019A
CD110	068122018A	CORD,CONNECTOR	8122018A
CD112	068124026A	CORD,CONNECTOR	8124026A
CD351	068D14244A	CORD,CONNECTOR	8D14244A
CD354	068DG09001	CORD,CONNECTOR	8DG09001
CD355	068DG09001	CORD,CONNECTOR	8DG09001
CD401	068M84001A	CORD,CONNECTOR	068M84001A
CD404	06831A035A	CORD,CONNECTOR	831A035A
CD471	068M15111A	CORD,CONNECTOR	8M15111A
CD472	068W52007A	CORD,CONNECTOR	8W52007A
⚠ CD501	1201650001	CORD,AC	01650001
CD504	068M46007B	CORD,CONNECTOR	8M46007B
CD508	068M01309A	CORD,CONNECTOR	8M01309A
CD509	068122013B	CORD,CONNECTOR	8122013B
CD510	068D82015A	CORD,CONNECTOR	8D82015A
CD705	068128029A	CORD,CONNECTOR	8128029A
CD706	068125031A	CORD,CONNECTOR	8125031A
CD801	127A260002	BRAIDED WIRE	SH-1869
CD802	068318070A	CORD,CONNECTOR	8318070A
CD803	068M15120A	CORD,CONNECTOR	8M15120A
CD805	068M12202A	CORD,CONNECTOR	8M12202A
CD806	068M12333A	CORD,CONNECTOR	8M12333A
CD808	068M12334A	CORD,CONNECTOR	8M12334A
CF001	116F3TH4Z1	FILTER,EMI	LTSTF223ZBTB
CF002	116F3TH4Z1	FILTER,EMI	LTSTF223ZBTB
CF003	116F3TH4Z1	FILTER,EMI	LTSTF223ZBTB
CF031	101205R504	FILTER,CERAMIC	SFT5.5MA
CF032	101205R743	FILTER,CERAMIC	SFT5.74MA
CF201	1027038R95	FILTER,SAW	F1037B
CF202	1012T5R503	FILTER,CERAMIC TRAP	TPS5.5MB-TF20
CF203	1022133R42	FILTER,SAW	SAF33.4MC70Z
CF351	11624223S3	FILTER,EMI	DSS310-55DL223S
CF352	11624223S3	FILTER,EMI	DSS310-55DL223S
CF353	11624223S3	FILTER,EMI	DSS310-55DL223S
CF354	11624223S3	FILTER,EMI	DSS310-55DL223S
CF701	116T4271K1	FILTER,EMI	LTSTB271KBTB
CF702	116T4271K1	FILTER,EMI	LTSTB271KBTB
CF703	1011A4R401	CERAMIC TRAD	EFCA4434BF
CP101	069R2A0359	CONNECTOR PCB SIDE	5550-10E
CP102	069R280359	CONNECTOR PCB SIDE	5550-08E
CP103	069Q150179	CONNECTOR PCB SIDE	CPB1805-0101
CP104	069R250359	CONNECTOR PCB SIDE	5550-05E

ELECTRICAL REPLACEMENT PARTS LIST

REF.NO	PART NO	DESCRIPTION
		MISCELLANEOUS (CONT)
CP105	069R2A0359	CONNECTOR PCB SIDE 5550-10E
CP106	069R2A0359	CONNECTOR PCB SIDE 5550-10E
CP110	0694240274	CONNECTOR PCB SIDE 4-175487-4
CP111	0694260129	CONNECTOR PCB SIDE 173981-6
CP112	0694240129	CONNECTOR PCB SIDE 173981-4
CP271	069Q140179	CONNECTOR PCB SIDE CPB1804-0101
CP272	069H150209	CONNECTOR PCB SIDE ILG5P-S3L-PCB-S
CP351	0694140019	CONNECTOR PCB SIDE 171825-4
CP401	069D340018	CONNECTOR PCB SIDE TS-80P-04-V1
CP404	069X1A0109	CONNECTOR PCB SIDE B10B-EH
CP405	069Z010010	CONNECTOR PIN CENTER RT-01N-2.3A
CP471	0694150019	CONNECTOR PCB SIDE 171825-5
CP472	069X520019	CONNECTOR PCB SIDE B2P-VH
CP501	0694430100	CORD,UX CONNECTOR 2-173270-3
CP503	069D420029	CONNECTOR PCB SIDE TV-50P-02-A1
CP504	069M460029	CONNECTOR PCB SIDE TV-50P-06-A1
CP508	069D01001A	CONNECTOR PCB SIDE 003P-2100
CP509	0694220129	CONNECTOR PCB SIDE 173981-2
CP510	069D330018	CONNECTOR PCB SIDE TS-80P-03-V1
CP701	069Q1A0179	CONNECTOR PCB SIDE CPB1810-0101
CP702	069H190209	CONNECTOR PCB SIDE ILG9P-S3L-PCB-S
CP703	069H1A0209	CONNECTOR PCB SIDE ILG10P-S3L-PCB-
CP705	0694260129	CONNECTOR PCB SIDE 173981-6
CP706	0694250129	CONNECTOR PCB SIDE 173981-5
CP801	069D330018	CONNECTOR PCB SIDE TS-80P-03-V1
CP802	069X180190	CONNECTOR PCB SIDE B8B-EH-A-B
CP803	069X150190	CONNECTOR PCB SIDE B5B-EH-A-B
CP804	0694130010	CONNECTOR PCB SIDE 2-171825-3
CP805	0694120010	CONNECTOR PCB SIDE 2-171825-2
CP806	069D010010	CONNECTOR PCB SIDE 005P-2100
CP851	069Q180179	CONNECTOR PCB SIDE CPB1808-0101
CP852	069H170209	CONNECTOR PCB SIDE ILG7P-S3L-PCB-S
CP951	069H170209	CONNECTOR PCB SIDE ILG7P-S3L-PCB-S
CP952	069Q160179	CONNECTOR PCB SIDE CPB1806-0101
CP953	069H170209	CONNECTOR PCB SIDE ILG7P-S3L-PCB-S
DL602	103S0R6501	DELAY LINE ELT-10Z265N
DL951	104114R43G	DELAY LINE GLASS EFDEN645A31F
⚠ F501	0808T04002	FUSE 4 A 250V
⚠ FB401	0432270042	TRANSFORMER,FLAYBACK 3227004
FH501	06760T0001	HOLDER FUSE PFC5000-0202
FH502	06760T0001	HOLDER FUSE PFC5000-0202
ICP501	084E03R101	IC PROTECTOR PRF-3150
ICP502	084702R702	IC PROTECTOR ICP-N75
MS401	128F000003	MICA,SHEET 1S-3MPC
MS501	1283200020	SILICON,SHEET 3200020
OS101	077S012001	REMOTE RECEIVER SPS-420-1
⚠ RY101	0560710103	RELAY G5R-1112P-OR
SP351	070A166001	SPEAKER CS1606T5106D-N
SP352	070A166001	SPEAKER CS1606T5106D-N
TC851	0100514005	C,CERAMIC TRIMMER TZ03R300YR
TH501	D8R0F140M0	DEGAUSS ELEM. PTH451C262BF140M270
TM001	076G013010	TRANSMITTER EUR-531103
⚠ TU001	0145611007	TUNER UHF-VHF TERE7-012A
⚠ V801	09BU260602	COLOR PICTURE TUBE A66ECF10X01
X101	1003T4R001	CERAMIC OSCILLATOR KBR-4.0MSTF
X251	1003R50001	CERAMIC OSCILLATOR KBR-500AH2
X401	1002R50004	CERAMIC OSCILLATOR CSB500F9
X601	10064R4306	CRYSTAL HC-49/U 4433.619KHZ
X850	100613R801	CRYSTAL HC49/U 13.875MHZ
X851	10056R0001	CRYSTAL NR-18 6.0MHZ
X951	100D4R2501	CRYSTAL 4R2501

RESISTOR
RC.....CARBON RESISTOR

CAPACITORS
CC.....CERAMIC CAPACITOR
CE.....ALUMI ELECTROLYTIC CAPACITOR
CP.....POLYESTER CAPACITOR
CPP.....POLYPROPYLENE CAPACITOR
CPL.....PLASTIC CAPACITOR
CMP.....METAL POLYESTER CAPACITOR
CMPL.....METAL PLASTIC CAPACITOR
CMPP.....METAL POLYPROPYLENE CAPACITOR
CST.....STYROL CAPACITOR